



缺氧小分子化合物 Kit-2 说明书

货号: IK-HIF-2

保存: Powder: -20°C, 2 years;

In solve: -20°C, 1 month; -80°C, 6 months

产品简介:

缺氧常常使细胞无法分化。然而, 缺氧促进血管的形成, 并且对于胚胎中血管系统的形成和癌症肿瘤很重要。伤口缺氧也促进了角质形成细胞的迁移和上皮的修复。

缺氧诱导因子 1 (HIF-1) 是一种转录因子, 是氧稳态的主要调节因子。它由两个亚单位组成: 一个诱导表达的 HIF-1 α 亚单位和一个组成性表达的 HIF-1 β 亚单位。在常氧条件下, HIF-1 α 在特定的脯氨酰残基处发生羟基化, 导致亚单位立即泛素化和随后的蛋白酶体降解。在缺氧条件下, HIF-1 α 亚单位变得稳定, 并与 p300/CBP 等共激活因子相互作用以调节其转录活性。最终, HIF-1 在缺氧条件下充当许多缺氧诱导基因的主要调节因子。HIF-1 α 激活的基因包括: VEGF、GLUT1、LDHA 等, HIF-1 α 也可以被 ERK2 调节, ERK2 可以磷酸化 HIF-1 α 。此外, 缺氧还会诱导 p53 蛋白的积累。

本 Kit 精选了数种常用于细胞氧感应相关研究的化合物, 便于客户进行初筛等操作。客户也可根据自己的需求灵活定制专属 Kit。

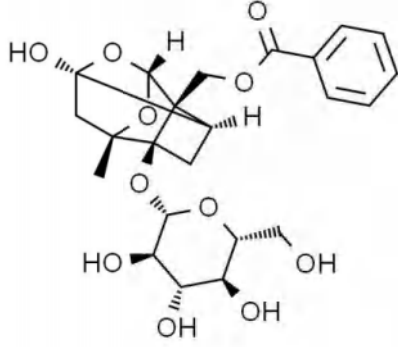

1. 具有良好的生物活性, 且为小包装规格, 可用于初筛、预实验、初步验证等操作
2. 靶向 HIF/HIF Prolyl-Hydroxylase、mTOR、NF- κ B、Raf、PI3K、STAT
3. 可用于探索细胞氧感应相关的研究, 例如: 缺氧、氧化应激等
4. 客户可根据自己的实验需求灵活定制 Kit: 规格、套装组成、产品种类、数量、形式 (溶液/干粉) 均可定制。

化学信息:

Cat.	Product Name	CAS.	Formula	M. Wt
IP0030	Paeoniflorin; 芍药苷	23180-57-6	C ₂₃ H ₂₈ O ₁₁	480.46
ID0540	DMOG; 二甲基乙二酰氨基乙酸	89464-63-1	C ₆ H ₉ NO ₅	175.14
IO0320	β -n-Oxalylamino-l-alanine; 三七素	5302-45-4	C ₅ H ₈ N ₂ O ₅	176.13
IR0420	Roxadustat; 可博美	808118-40-3	C ₁₉ H ₁₆ N ₂ O ₅	352.34
IA4520	N-乙酰-L-胱氨酸	38520-57-9	C ₅ H ₁₀ N ₂ O ₂ S	162.21
IR0010	Rapamycin; 雷帕霉素	53123-88-9	C ₅₁ H ₇₉ NO ₁₃	914.18
IT0310	Triptolide; 雷公藤甲素	38748-32-2	C ₂₀ H ₂₄ O ₆	360.4
IS0220	Sorafenib; 索拉非尼	284461-73-0	C ₂₁ H ₁₆ ClF ₃ N ₄ O ₃	464.83
IQ0010	Quercetin; 槲皮素	117-39-5	C ₁₅ H ₁₀ O ₇	302.24
IC0590	Cryptotanshinone; 隐丹参酮	35825-57-1	C ₁₉ H ₂₀ O ₃	296.36

生物学信息:

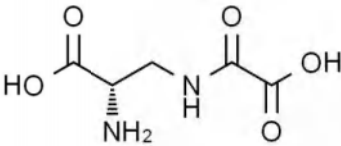

1. IP0030 Paeoniflorin 芍药苷

Target	COX-2; HIF-1 α																
Description	<p>Paeoniflorin 可降低 COX-2 表达; 可通过 mTOR 依赖的通路抑制 HIF-1α。</p> <p>Paeoniflorin can reduce COX-2 expression; it can inhibit HIF-1α through mTOR-dependent pathways.</p>																
溶解性 Solubility	<p>In Vitro: Soluble in DMSO</p> <table border="1"><thead><tr><th>Concentration \ Solvent \ Mass</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr></thead><tbody><tr><th>1 mM</th><td>2.0813 mL</td><td>10.4067 mL</td><td>20.8134 mL</td></tr><tr><th>5 mM</th><td>0.4163 mL</td><td>2.0813 mL</td><td>4.1627 mL</td></tr><tr><th>10 mM</th><td>0.2081 mL</td><td>1.0407 mL</td><td>2.0813 mL</td></tr></tbody></table> <p>* 产品为非无菌包装, 请根据实验需求提前做好预处理。一旦配成储备液, 建议分装保存, 避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg	1 mM	2.0813 mL	10.4067 mL	20.8134 mL	5 mM	0.4163 mL	2.0813 mL	4.1627 mL	10 mM	0.2081 mL	1.0407 mL	2.0813 mL
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<div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"><p>Chemical structure of Paeoniflorin, a complex polycyclic molecule with multiple hydroxyl groups and a benzoyl ester group.</p></div><div style="text-align: center;"><p>QR code linking to Solarbio Life Sciences information.</p></div></div>																	

2. ID0540 DMOG 二甲基乙二酰氨基乙酸

Target	HIF/HIF Prolyl-Hydroxylase																			
Description	<p>是竞争型的 HIF-1α脯氨酰羟化酶 (HIF-PH) 抑制剂。</p> <p>It is a competitive HIF-1α prolyl hydroxylase (HIF-PH) inhibitor.</p>																			
溶解性 Solubility	<p>In Vitro:</p> <p>Soluble in DMSO/Water</p> <table border="1" data-bbox="461 663 1369 990"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>5.7097 mL</td> <td>28.5486 mL</td> <td>57.0972 mL</td> </tr> <tr> <td>5 mM</td> <td>1.1419 mL</td> <td>5.7097 mL</td> <td>11.4194 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5710 mL</td> <td>2.8549 mL</td> <td>5.7097 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	5.7097 mL	28.5486 mL	57.0972 mL	5 mM	1.1419 mL	5.7097 mL	11.4194 mL	10 mM	0.5710 mL	2.8549 mL	5.7097 mL
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="435 1547 775 1697"> <chem>COC(=O)C(=O)NCC(=O)OC</chem> </div> <div data-bbox="842 1453 1187 1794"> </div> </div>																				

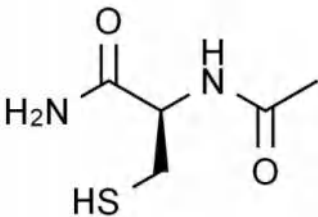

3. IO0320 β -n-Oxalylamino-l-alanine; 三七素

Target	PHD2																			
Description	<p>是一种 HIF-prolyl hydroxylase-2 (PHD-2) 抑制剂</p> <p>It is a HIF-prolyl hydroxylase-2 (PHD-2) inhibitor</p>																			
溶解性 Solubility	<p>In Vitro:</p> <p>Soluble in DMSO/Water ≥ 1 mg/mL (Need ultrasonic)</p> <p>"\geq" means soluble, but saturation unknown.</p> <table border="1" data-bbox="453 719 1361 1048"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>5.6776 mL</td> <td>28.3881 mL</td> <td>56.7762 mL</td> </tr> <tr> <td>5 mM</td> <td>1.1355 mL</td> <td>5.6776 mL</td> <td>11.3552 mL</td> </tr> <tr> <td>10 mM</td> <td>0.5678 mL</td> <td>2.8388 mL</td> <td>5.6776 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	5.6776 mL	28.3881 mL	56.7762 mL	5 mM	1.1355 mL	5.6776 mL	11.3552 mL	10 mM	0.5678 mL	2.8388 mL	5.6776 mL
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4. IR0420 Roxadustat 可博美

Target	HIF/HIF Prolyl-Hydroxylase																		
Description	<p>是一种脯氨酰羟化酶 HIF 抑制剂。</p> <p>It is a HIF prolyl hydroxylase inhibitor</p>																		
溶解性 Solubility	<p>In Vitro:</p> <p>Soluble in DMSO</p> <table border="1" data-bbox="453 696 1359 1021"> <thead> <tr> <th data-bbox="453 696 730 837"> <div style="display: flex; justify-content: space-between;"> Solvent Mass </div> Concentration </th> <th data-bbox="730 696 938 837">1 mg</th> <th data-bbox="938 696 1145 837">5 mg</th> <th data-bbox="1145 696 1359 837">10 mg</th> </tr> </thead> <tbody> <tr> <td data-bbox="453 837 730 898">1 mM</td> <td data-bbox="730 837 938 898">2.8382 mL</td> <td data-bbox="938 837 1145 898">14.1908 mL</td> <td data-bbox="1145 837 1359 898">28.3817 mL</td> </tr> <tr> <td data-bbox="453 898 730 958">5 mM</td> <td data-bbox="730 898 938 958">0.5676 mL</td> <td data-bbox="938 898 1145 958">2.8382 mL</td> <td data-bbox="1145 898 1359 958">5.6763 mL</td> </tr> <tr> <td data-bbox="453 958 730 1021">10 mM</td> <td data-bbox="730 958 938 1021">0.2838 mL</td> <td data-bbox="938 958 1145 1021">1.4191 mL</td> <td data-bbox="1145 958 1359 1021">2.8382 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>			<div style="display: flex; justify-content: space-between;"> Solvent Mass </div> Concentration	1 mg	5 mg	10 mg	1 mM	2.8382 mL	14.1908 mL	28.3817 mL	5 mM	0.5676 mL	2.8382 mL	5.6763 mL	10 mM	0.2838 mL	1.4191 mL	2.8382 mL
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5. IA4520 N-乙酰-L-胱氨酸 N-AcetylcysteineAmide

Target	HIF; NF-κB;ROS																				
Description	<p>是一种抗氧化剂，具有消炎活性，能够调节 NF-κB 的激活、HIF-1α和 ROS。</p> <p>It is an antioxidant with anti-inflammatory activity and can regulate the activation of NF-κB, HIF-1α and ROS.</p>																				
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6. IR0010 Rapamycin; 雷帕霉素

Target	mTOR																														
Description	<p>Rapamycin 是一种大环内酯类免疫抑制剂。还是一种有效且特异性的 mTOR 抑制剂和自噬激活剂。</p> <p>Rapamycin is a macrolide immunosuppressant. It is also an effective and specific mTOR inhibitor and autophagy activator.</p>																														
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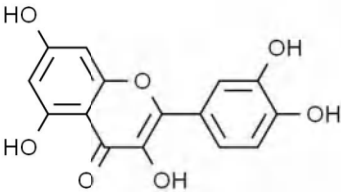

7. IT0310 Triptolide; 雷公藤甲素

Target	NF-κB; Apoptosis																
Description	<p>一种二萜类三环氧化物，具有免疫抑制，抗炎和抗增殖作用。是 NF-κB 活化的抑制剂。</p> <p>It is a diterpenoid triepoxide with immunosuppressive, anti-inflammatory and anti-proliferative effects. It is an inhibitor of NF-κB activation.</p>																
<p>溶解性 Solubility</p>	<p>In Vitro: Soluble in DMSO</p> <table border="1" data-bbox="454 779 1361 1106"> <thead> <tr> <th data-bbox="454 779 730 920"> <div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Solvent</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mass</div> </div> </th> <th data-bbox="730 779 940 920">1 mg</th> <th data-bbox="940 779 1149 920">5 mg</th> <th data-bbox="1149 779 1361 920">10 mg</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 920 730 981">1 mM</td> <td data-bbox="730 920 940 981">2.7747 mL</td> <td data-bbox="940 920 1149 981">13.8735 mL</td> <td data-bbox="1149 920 1361 981">27.7469 mL</td> </tr> <tr> <td data-bbox="454 981 730 1041">5 mM</td> <td data-bbox="730 981 940 1041">0.5549 mL</td> <td data-bbox="940 981 1149 1041">2.7747 mL</td> <td data-bbox="1149 981 1361 1041">5.5494 mL</td> </tr> <tr> <td data-bbox="454 1041 730 1106">10 mM</td> <td data-bbox="730 1041 940 1106">0.2775 mL</td> <td data-bbox="940 1041 1149 1106">1.3873 mL</td> <td data-bbox="1149 1041 1361 1106">2.7747 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Solvent</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Mass</div> </div>	1 mg	5 mg	10 mg	1 mM	2.7747 mL	13.8735 mL	27.7469 mL	5 mM	0.5549 mL	2.7747 mL	5.5494 mL	10 mM	0.2775 mL	1.3873 mL	2.7747 mL
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="427 1619 767 1816"> </div> <div data-bbox="834 1547 1177 1888"> </div> </div>																	

8. IS0220 Sorafenib; 索拉非尼

Target	Raf; VEGFR; FLT3; Autophagy; Apoptosis; Ferroptosis																
Description	<p>是一种多激酶抑制剂，对 VEGFR2/3, PDGFRβ, FLT3 和 c-Kit 均有抑制效果。也是一种有效的 Raf 抑制剂和 Ferroptosis 激动剂。可以诱导自噬和凋亡，并具有抗肿瘤活性。</p> <p>Sorafenib is a multi-kinase inhibitor that has inhibitory effects on VEGFR2/3, PDGFRβ, FLT3 and c-Kit. Sorafenib is also an effective Raf inhibitor and Ferroptosis agonist. Sorafenib can induce autophagy and apoptosis, and has anti-tumor activity.</p>																
<p>溶解性</p> <p>Solubility</p>	<p>In Vitro:</p> <p>Soluble in DMSO</p> <table border="1" data-bbox="454 878 1361 1205"> <thead> <tr> <th data-bbox="454 878 730 1016">Solvent \ Mass \ Concentration</th> <th data-bbox="730 878 943 1016">1 mg</th> <th data-bbox="943 878 1150 1016">5 mg</th> <th data-bbox="1150 878 1361 1016">10 mg</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 1016 730 1077">1 mM</td> <td data-bbox="730 1016 943 1077">2.1513 mL</td> <td data-bbox="943 1016 1150 1077">10.7566 mL</td> <td data-bbox="1150 1016 1361 1077">21.5132 mL</td> </tr> <tr> <td data-bbox="454 1077 730 1137">5 mM</td> <td data-bbox="730 1077 943 1137">0.4303 mL</td> <td data-bbox="943 1077 1150 1137">2.1513 mL</td> <td data-bbox="1150 1077 1361 1137">4.3026 mL</td> </tr> <tr> <td data-bbox="454 1137 730 1205">10 mM</td> <td data-bbox="730 1137 943 1205">0.2151 mL</td> <td data-bbox="943 1137 1150 1205">1.0757 mL</td> <td data-bbox="1150 1137 1361 1205">2.1513 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg	1 mM	2.1513 mL	10.7566 mL	21.5132 mL	5 mM	0.4303 mL	2.1513 mL	4.3026 mL	10 mM	0.2151 mL	1.0757 mL	2.1513 mL
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="427 1697 767 1823">  </div> <div data-bbox="834 1585 1182 1928">  </div> </div>																	

9. IQ0010 Quercetin; 槲皮素

Target	PI3K; Autophagy; Mitophagy																												
Description	<p>是一种黄酮类化合物，可激活或抑制许多蛋白质的活性。是一种 Sirt1 的激活剂同时也是 PI3K 抑制剂。</p> <p>It is a flavonoid compound that can activate or inhibit the activity of many proteins. It is a Sirt1 activator and a PI3K inhibitor.</p>																												
<p>溶解性</p> <p>Solubility</p>	<p>In Vitro:</p> <p>Soluble in DMSO</p> <table border="1" data-bbox="454 795 1361 1122"> <thead> <tr> <th data-bbox="454 795 730 936"> <table border="1"> <tr> <td>Mass</td> <td colspan="3"></td> </tr> <tr> <td>Solvent</td> <td colspan="3"></td> </tr> <tr> <td>Concentration</td> <td colspan="3"></td> </tr> </table> </th> <th data-bbox="730 795 938 936">1 mg</th> <th data-bbox="938 795 1145 936">5 mg</th> <th data-bbox="1145 795 1361 936">10 mg</th> </tr> </thead> <tbody> <tr> <td data-bbox="454 936 730 996">1 mM</td> <td data-bbox="730 936 938 996">3.3086 mL</td> <td data-bbox="938 936 1145 996">16.5431 mL</td> <td data-bbox="1145 936 1361 996">33.0863 mL</td> </tr> <tr> <td data-bbox="454 996 730 1057">5 mM</td> <td data-bbox="730 996 938 1057">0.6617 mL</td> <td data-bbox="938 996 1145 1057">3.3086 mL</td> <td data-bbox="1145 996 1361 1057">6.6173 mL</td> </tr> <tr> <td data-bbox="454 1057 730 1122">10 mM</td> <td data-bbox="730 1057 938 1122">0.3309 mL</td> <td data-bbox="938 1057 1145 1122">1.6543 mL</td> <td data-bbox="1145 1057 1361 1122">3.3086 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。</p> <p>* The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	<table border="1"> <tr> <td>Mass</td> <td colspan="3"></td> </tr> <tr> <td>Solvent</td> <td colspan="3"></td> </tr> <tr> <td>Concentration</td> <td colspan="3"></td> </tr> </table>	Mass				Solvent				Concentration				1 mg	5 mg	10 mg	1 mM	3.3086 mL	16.5431 mL	33.0863 mL	5 mM	0.6617 mL	3.3086 mL	6.6173 mL	10 mM	0.3309 mL	1.6543 mL	3.3086 mL
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<div style="display: flex; justify-content: space-around; align-items: center;"> <div data-bbox="427 1608 769 1798">  <p>Chemical structure of Quercetin (3,3',4',5'-tetrahydroxyflavone).</p> </div> <div data-bbox="836 1532 1177 1877">  <p>Solarbio LIFE SCIENCES</p> </div> </div>																													

10. IC0590 Cryptotanshinone; 隐丹参酮

Target	STAT; Autophagy																			
Description	可以抑制 STAT3，具有多种生理活性。 Cryptotanshinone can inhibit STAT3 and has a variety of physiological activities.																			
溶解性 Solubility	<p>In Vitro: Soluble in DMSO</p> <table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.1513 mL</td> <td>10.7566 mL</td> <td>21.5132 mL</td> </tr> <tr> <td>5 mM</td> <td>0.4303 mL</td> <td>2.1513 mL</td> <td>4.3026 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2151 mL</td> <td>1.0757 mL</td> <td>2.1513 mL</td> </tr> </tbody> </table> <p>* 产品为非无菌包装，请根据实验需求提前做好预处理。一旦配成储备液，建议分装保存，避免反复冻融造成的产品失效。 * The product is non-sterile packaging, please do pre-treatment in advance according to experimental needs. Once the stock solution is prepared, it is recommended to store in aliquots to avoid product failure caused by repeated freezing and thawing.</p>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	1 mM	2.1513 mL	10.7566 mL	21.5132 mL	5 mM	0.4303 mL	2.1513 mL	4.3026 mL	10 mM	0.2151 mL	1.0757 mL	2.1513 mL
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Note:

1. 产品信息仅供参考，如有疑问请致电 400-968-6088 咨询。
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