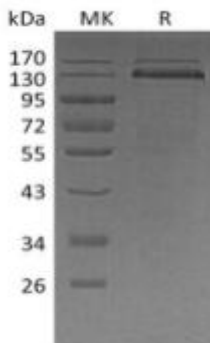


## Recombinant Human THBS1

Catalog#:P00885 Derived from Human Cells

<b>DESCRIPTION</b>	<p>Recombinant Human Thrombospondin- 1 is produced by our Mammalian expression system and the target gene encoding Asn19- Pro1170 is expressed with a 10His tag at the C-terminus.</p> <p><b>Accession#:</b> P07996</p> <p><b>Known as:</b> Thrombospondin- 1; THBS1; TSP; TSP1</p>
<b>FORMULATION</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at &lt;-20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
<b>RECONSTITUTION</b>	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100μg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b>129.2kDa <b>AP Mol Mass:</b>130&amp;170kDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 85% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> Less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>Thrombospondin- 1 (TSP- 1) is a 150-180kDa calcium-sensitive protein that is secreted as a disulfide-linked homotrimer. TSP- 1 regulates a wide range of cellular functions including their interactions with other cells and with the extracellular matrix (ECM). TSP- 1 contains an N-terminal Laminin G-like globular domain, an extended central region with one vWFC domain, 3 TSP type 1 domains, 2 EGF-like domains, and 8 TSP type3 domains, and a globular TSP C-terminal domain. Distinct regions of TSP- 1 have been associated with binding to particular ECM or cellular molecules. TSP-1 counteracts the angiogenic, hypotensive, and antithrombotic effects of nitric oxide (NO). It binds and neutralizes VEGF, blocks VEGF R2 signaling on vascular endothelial cells(EC), and destabilizes adhesive contacts between EC. TSP- 1 also plays an important role in wound repair and tissue fibrosis by binding latent TGF-beta and inducing release of the active cytokine from the latency associated peptide (LAP).</p>
<b>SDS-PAGE</b>	 <p>kDa MK R</p> <p>170</p> <p>130</p> <p>95</p> <p>72</p> <p>55</p> <p>43</p> <p>34</p> <p>26</p>