

CEPT Cocktail Kit (Dry powder type)

Cat:IKC1032-1

Storage: -20°C, 1 year

Introduction

CEPT Cocktail contains three small molecule compounds, Chroman 1, Emricasan, and Trans-ISRIB, paired with a Polyamine Solution that reduces cellular stress and dramatically improves the survival of multipotent stem cells and promotes their clonal growth. In addition, CEPT Cocktail has been shown to improve routine cell passaging, ultra-low temperature preservation of pluripotent differentiated cells, and embryoid and organoid formation.

Product Components

Kit components	Size	Storage
Reagent I Chroman 1	1mg	-20°C
Reagent II Emricasan	2mg	-20°C
Reagent III Trans-ISRIB	2mg	-20°C
Reagent IV 1000× Polyamine Solution	1mL	-20°C

Note:

- Reagent I, Reagent II and Reagent III are non-sterile dispensing, please filter and decontaminate before use.
- Reagent IV is 1000× reserve solution.
- Before use, please centrifuge each tube of small dose reagent instantaneously to avoid loss.
- This product is for scientific research use only. Do not use in medicine, clinical diagnosis or treatment, food and cosmetics. Do not store in ordinary residential areas.
- For your safety and health, please wear a lab coat and operate with disposable gloves and mask.

Instructions for use (for reference only)

Preparation of 10,000 x stock solution

1. 10,000 x Reagent I Reserve (0.5 mM Chroman 1):

Dissolve 1 mg Chroman 1 in 4.582 mL DMSO, vortex and mix until Chroman 1 is completely dissolved, dispense appropriately and store at -20°C or below.

2. 10,000× Reagent II stock solution (50 mM Emricasan):

Dissolve 2 mg of Emricasan in 0.0702 mL of DMSO, vortex and mix until Emricasan is completely dissolved, and store at -20°C or below after proper portioning.

3. 10,000× Reagent III Reserve (7 mM Trans-ISRIB):

Dissolve 2 mg of Trans-ISRIB in 0.633 mL of DMSO, heat to 45-60°C, vortex and mix until Trans-ISRIB is completely dissolved, store at -20°C or below after appropriate portioning.

Preparation of working solution

1. Before use, mix Reagent I, Reagent II, and Reagent III stock solutions with cell culture medium at a ratio of 1:10,000. For example, add 1 μL of each compound to every 10 mL of hPSC cell culture medium. In this case, the working concentration of Reagent 1 Chroman 1 is 50 nM, the working concentration of Reagent 2 Emricasan is 5 μM , and the working concentration of Reagent 3 Trans-ISRIB is 0.7 μM .
2. Add 10 μL of 1,000 \times Polyamine Solution to every 10 mL of hPSC cell culture medium.
3. Filter the prepared medium through a 0.22 μm membrane to remove bacteria. The prepared culture medium is recommended to be used as soon as possible and is not recommended to be stored for a long period of time.

Related Products

- IK-LIN-7 Lipogenesis-inducing small molecule compound Kit-7*
- IK-OIN-5 Osteoinductive Small Molecule Compound Kit-5*
- IK-CHD-3 Chondrogenesis-Inducing Small Molecule Compound Kit*
- IKM1020 10 \times Protease and Phosphatase Inhibitor Cocktail (general-purpose type)*
- IKM1010 100 \times Protease Inhibitor Cocktail MIX (general-purpose type)*
- IKC1010-1 Gastric cancer organoid growth medium kit*
- IKC1011-1 Lung cancer organoid growth medium kit*
- IKC1012-1 Bowel cancer organoid growth medium kit*
- IKC1013-1 Esophageal Cancer Organoid Growth Medium Kit*
- IKC1014-1 Hepatocellular carcinoma organoid growth medium kit*
- IKC1015-1 Pancreatic Cancer Organoid Growth Media Kit*
- IKC1016-1 Mouse intestinal organoid growth medium kit*
- IKC1020-1 Human Small Cell Lung Cancer Organoid Culture Kit*
- IKC1021-1 Human endometrial cancer organoid culture kit*
- IKC1022-1 Renal tubule-like organ culture kit*
- IKC1025-1 Mouse gallbladder organoid culture kit*
- IKC1026-1 Mouse Liver Organ Culture Kit*
- IKC1027-1 Mouse Lung Organ Culture Kit*
- IKC1028-1 Mouse Kidney Organ Culture Kit*
- IKC1029-1 Mouse esophageal organoid culture kit*
- IKC1030-1 Mouse Pancreas Organoid Culture Kit*
- IKC1031-1 Mouse Gastric Organ Culture Kit*