

Protein transport inhibitor Kit

CAT NO: IK-PTI-1

Storage: -20°C, 6 months.

Size: 4*100 µL

Production

Brefeldin A is a specific inhibitor of protein transport that blocks the transport of secreted and membrane proteins from the endoplasmic reticulum to the Golgi apparatus, and is commonly used to inhibit the secretion of proteins such as cytokines and to enhance immunostaining detection of secreted proteins. Monensin is a commonly used protein transport inhibitor that destroys the Golgi apparatus, inhibits intracellular protein transport, and is often used to inhibit the secretion of secreted proteins such as cytokines, so that they remain in the cell.

This kit is suitable for assays that prevent protein transport to the extracellular space. Its addition to cell media inhibits intracellular protein secretion/transport pathways, resulting in secreted protein accumulation in the endoplasmic reticulum and Golgi apparatus. This accumulation can then be detected by intracellular staining and flow cytometry or Western blotting. It can also be used in combination with PMA and Ionomycin (Cat:IK-CEA-2) to accurately analyze cytokine expression levels.

Kit Components

Reagent	Size	Solvent
Reagent 1 1000× Brefeldin A(10.6mM)	100µL	DMSO
Reagent 2 1000×Monensin(2mM)	100µL	EtOH

Product Characteristics

1. This Kit consists of 2 independent components with clear concentration, which can be freely combined or accurately adjusted according to your experimental requirements.
2. Flexible customization. Customers can customize their own Kit by removing or adding other required compounds according to their own experimental needs. Custom specifications and packaging are also available.

Related Literature

[1]. Deng S, et al. ITPRIPL1 binds CD3ε to impede T cell activation and enable tumor immune evasion. Cell. 2024 Apr 25;187(9):2305-2323.e33. doi: 10.1016/j.cell.2024.03.019. Epub 2024 Apr 12. (IF: 64.5)

Note

1. Before use, please centrifuge each tube of small dose reagent instantaneously to avoid loss.
2. This product is for scientific research only. Do not use for medicine, clinical diagnosis or treatment, food and cosmetics.
3. For your safety and health, please wear a laboratory coat, disposable gloves and a mask.

Related Products

IKM2000 500×Cell Stimulation Cocktail MIX (With protein transport inhibitor)

IKM2010 500×Cell Stimulation Cocktail MIX (Without protein transport inhibitor)

IKM2020 500×Protein transport inhibitor Cocktail MIX