Recombinant Human UCP1 protein (His Tag)

Catalog Number: PDEH100795



Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species	Human
Mol_Mass	33.7 kDa
Accession	P25874

Bio-activity Not validated for activity

Properties

Description

Purity > 95% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

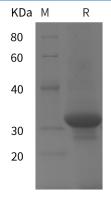
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Mitochondrial brown fat uncoupling protein 1 (UCP1, also Thermogenin and UCP) is a 33 kDa member of the mitochondrial carrier family of proteins. Human UCP1 are both 307 amino acids (aa) in length and contain three solcar repetitive regions and six transmembrane segments. UCP1 is found in brown adipose tissue, where it becomes activated by fatty acids and inhibited by nucleotides. It functions as a mitochondrial transporter that creates a proton leak across the inner mitochondrial membrane, uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat.

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