

Recombinant Human UCP1 protein (His tag)

Catalog Number:PDEH100137



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

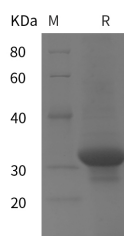
Description

Synonyms	UCP1;SLC25A7;UCP
Species	Human
Expression Host	E.coli
Sequence	Met 1-Thr 307
Accession	P25874
Calculated Molecular Weight	33.7 kDa
Observed molecular weight	31 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

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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