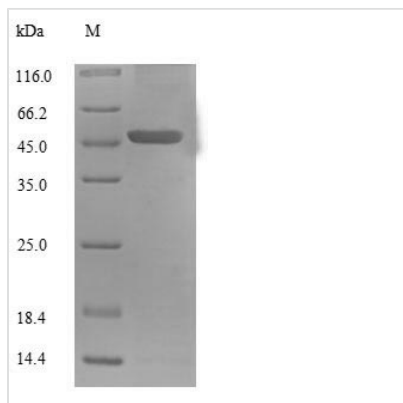




Recombinant Human Mitochondrial brown fat uncoupling protein 1 (UCP1)

Product Code	CSB-EP025554HU
Relevance	UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial mbrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat.
Abbreviation	Recombinant Human UCP1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P25874
Alias	Solute carrier family 25 member 7Thermogenin
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GGLTASDVHPTLGVLQFSAGIAACLADVITFPLDTAKVRLQVQGECPTSSVIRY KGVLTITAVVKTEGRMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKET APSLGSKILAGLTTGGVAVFIGQPTEVVKVRLQAQSHLHGKPRYTGTYNAYRII ATTEGLTGLWKGTTPNLMRSVIINCTELVTYDLMKEAFVKNNILADDVPCHLVS ALIAGFCATAMSSPVDVVKTRFINSPPGQYKSVPCAMKVFTNEGPTAFFKGL VPSFLRLGSWNVIMFVCFEQLKRELSKSRQTMDCAT
Research Area	Transport
Source	E.coli
Target Names	UCP1
Expression Region	2-307aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	48.9kDa
Protein Length	Full Length of Mature Protein
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.