

Datasheet for ABIN7544924
UCP3 Protein (AA 1-312) (His tag)



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3 Images

Overview

Quantity:	1 mg
Target:	UCP3
Protein Characteristics:	AA 1-312
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UCP3 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant UCP3 Protein expressed in mammalian cells.
Sequence:	<p>MVGLKPSDVP PTMAVKFLGA GTAACFADLV TFPLDTAKVR LQIQGENQAV QTARLVQYRG</p> <p>VLGTILTMVR TEGPCSPYNG LVAGLQRQMS FASIRIGLYD SVKQVYTPKG ADNSSLTTRI</p> <p>LAGCTTGAMA VTCAQPTDVV KVRFAQSIHL GPSRSDRKYS GTMDAYRTIA REEGVRGLWK</p> <p>GTLPNIMRNA IVNCAEVVY DILKEKLLDY HLLTDNFPCH FVSAFGAGFC ATVVASPDV</p> <p>VKTRYMNSPP GQYFSPLDCM IKMVAQEGPT AFYKGFTPSF LRLGSWNVVM FVTYEQLKRA</p> <p>LMKVQMLRES PF Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	UCP3
Alternative Name:	UCP3 (UCP3 Products)
Background:	<p>Putative mitochondrial transporter UCP3 (Solute carrier family 25 member 9) (Uncoupling protein-3) (UCP 3),FUNCTION: Putative transmembrane transporter that plays a role in mitochondrial metabolism via an as yet unclear mechanism (PubMed:21775425, PubMed:36114012). Originally, this mitochondrial protein was thought to act as a proton transmembrane transporter from the mitochondrial intermembrane space into the matrix, causing proton leaks through the inner mitochondrial membrane, thereby uncoupling mitochondrial membrane potential generation from ATP synthesis (PubMed:9305858, PubMed:11171965, PubMed:12670931, PubMed:12734183). However, this function is controversial and uncoupling may not be the function, or at least not the main function, but rather a consequence of more conventional metabolite transporter activity (PubMed:11707458). {ECO:0000269 PubMed:11171965, ECO:0000269 PubMed:11707458, ECO:0000269 PubMed:12670931, ECO:0000269 PubMed:12734183, ECO:0000269 PubMed:21775425, ECO:0000269 PubMed:36114012, ECO:0000269 PubMed:9305858}.</p>

Target Details

Molecular Weight:	34.2 kDa
UniProt:	P55916
Pathways:	Proton Transport

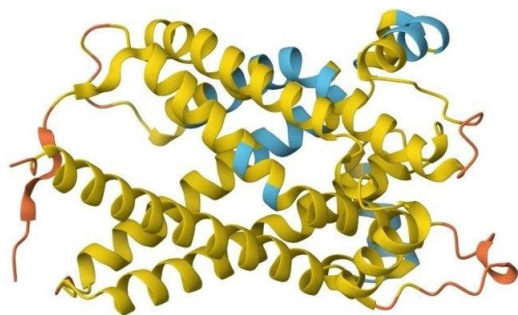
Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Images



Protein Structure

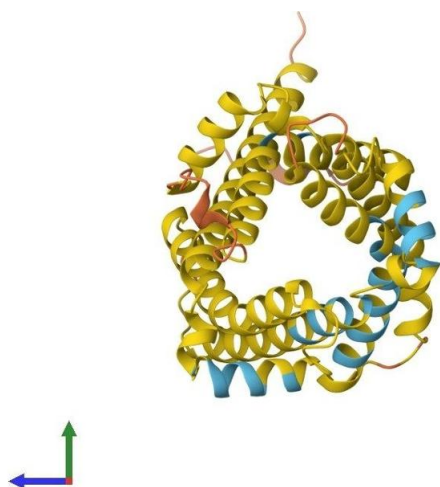
Image 1. AlphaFold protein structure prediction of Human Recombinant UCP3 Protein, UniprotID P55916





Protein Structure

Image 2. AlphaFold protein structure prediction of Human Recombinant UCP3 Protein, UniprotID P55916



Protein Structure

Image 3. AlphaFold protein structure prediction of Human Recombinant UCP3 Protein, UniprotID P55916