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Product Information

MemDX™ Membrane Protein Human UCP2 (Uncoupling protein 2) Full Length

Cat. No.: **MPC2358K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human UCP2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
UCP2

Protein Length
Full length

Protein Class
Transporter

TMD
6

Sequence
MVGFKATDVPPTATVKFLGAGTAACIADLITFPLDTAKVRLQIQGESQGP
VRATASAQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLY
DSVKQFYTKGSEHASIGSRLLAGSTTGALAVAVAQPTDVVKVRFQAQARA
GGGRRYQSTVNAYKTIAREEGFRGLWKGTSPNVARNAIVNCAELVTYDLI
KDALLKANLMTDDLPCHFTSAFGAGFCTTVIASPVDVVKTRYMNSALGQY
SSAGHCALTMLQKEGPRAFYKGFMPSFLRLGSWNVVMFVTYEQLKRALMA
ACTSREAPF

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format
Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

UCP2

Full Name

Uncoupling protein 2

Introduction

Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H+/OH- are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'.

Alternative Names

UCP2; UCPH; BMIQ4; SLC25A8; mitochondrial uncoupling protein 2; solute carrier family 25 member 8; uncoupling protein 2 (mitochondrial, proton carrier); Uncoupling protein 2

Gene ID

7351

UniProt ID

P55851

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