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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet

UCP2 (Human) Recombinant Protein (P01)

Catalog Number: H00007351-P01

Regulation Status: For research use only (RUO)

Product Description: Human UCP2 full-length ORF (AAH11737, 1 a.a. - 309 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MVGFKATDVPPTATVKFLGAGTAACIADLITFPLGTAKV
RLQIQGESQGPVVRATASAQYRGVMGTLTMVRTEGPR
SLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEH
ASIGSRLLAGSTTGALAVAVAQPTDVVKVRFQAQARA
GGRRYQSTVNAYKTIAREEGFRGLWKGTSPLNARN
AIVNCAELVTYDLIKDALLKANLMTDDLPCFTSAFGAG
FCTTVIASPVDVVKTRYMNSALGQYSSAGHCALTMLQ
KEGPRAFYKGFMPFSLRLGSWNVVMFVTYEQLKRAL
MAACTSREAPF

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 59.73

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 7351

Gene Symbol: UCP2

Gene Alias: BMIQ4, SLC25A8, UCPH

Gene Summary: 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'. [provided by RefSeq]