

Recombinant Human Uncoupling Protein 3 (mitochondrial, proton carrier)

Cat. No. UCP3-5147H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UCP3 is a <3 kDa protein and has preferential expression in muscle and it is unaffected by cold acclimation.
Species	Human
Source	Human
Description	Uncoupling proteins (UCP1-5) are a family of mitochondria transport proteins that play a critical role in thermoregulatory heat production and maintenance of basal metabolic rate. UCP3 is predicted to contain 6 transmembrane domains. The UCP3S lacks the 6th transmembrane domain and it is only 275 aa long.
Form	Lyophilized from PBS, pH 7.5, with 0.05% NaN ₃ . Reconstitute in 100 ul of water.
Molecular Mass	< 3 kDa
Applications	ELISA
Storage	Store at 4 deg C for short term storage. Aliquot and store at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	UCP3

GENE INFORMATION

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Gene Name	UCP3 uncoupling protein 3 (mitochondrial, proton carrier)[Homo sapiens]
Synonyms	UCP3; uncoupling protein 3(mitochondrial, proton carrier); SLC25A9; mitochondrial uncoupling protein 3; UCP 3; OTTHUMP00000237951; OTTHUMP00000237952; Uncoupling protein-3; solute carrierfamily 25 member 9
Gene ID	7352
mRNA Refseq	NM_003356
Protein Refseq	NP_003347
MIM	602044
UniProt ID	P55916
Chromosome Location	11q13.4
Pathway	Diurnally regulated genes with circadian orthologs; Electron Transport Chain; Energy Metabolism; Mitochondrial Uncoupling Proteins; Respiratory electron transport; The fatty acid cycling model; The proton buffering model
Function	binding; oxidative phosphorylation uncoupler activity; transporter activity