Recombinant Rat Ucp2 protein, His-tagged

Cat. No. Ucp2-7918R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ucp2 aa. (Leu99~Cys216) fused with N-terminal His tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Leu99~Cys216
Description	Catalyzes a proton leak across the inner mitochondrial membrane to uncouple oxidative phosphorylation; may reduce the concentration of reactive ozygen species in mitochondria.
Form	Freeze-dried powder
Molecular Mass	14kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>92%
Characteristic	The isoelectric point is 9.0.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

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Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ucp2 uncoupling protein 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Ucp2
Synonyms	Ucp2; uncoupling protein 2; mitochondrial uncoupling protein 2; UCP 2; Uncoupling protein 2, mitochondrial; solute carrier family 25 member 8; uncoupling protein 2 (mitochondrial, proton carrier)
Gene ID	54315
mRNA Refseq	NM_019354.3

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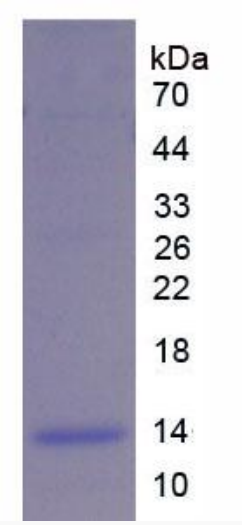
Protein Refseq	NP_062227.2
UniProt ID	P56500
SDS-PAGE	

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