Recombinant Mouse Pnoc protein, His & T7-tagged

Cat. No. Pnoc-8009M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Pnoc aa. (Ser12~Val187 (Accession # Q64387)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Ser12~Val187
Description	This gene encodes the precursor for neuropeptides that have been implicated in a wide range of physiological roles such as transmission and sensitivity to pain, learning, memory, anxiety and depression, in the central nervous system. The encoded protein is a precursor that is proteolytically processed to generate multiple biologically active peptides including nociceptin and nocistatin which have opposite functions in pain transmission. Mice lacking the encoded protein display increased anxiety, elevated basal pain threshold and impaired adaptation to repeated stress. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 23.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

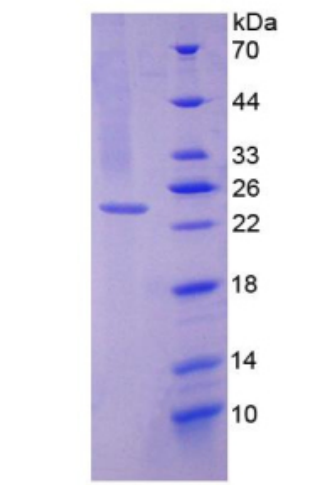
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	The isoelectric point is 9.1.
Applications	SDS-PAGE; WB; ELISA; IP
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.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Pnoc prepronociceptin [Mus musculus (house mouse)]
Official Symbol	Pnoc
Synonyms	Pnoc; prepronociceptin; N/OFQ; Npnc1; OFQ/N; neuropeptide nociceptin 1; orphanin FQ; proorphanin
Gene ID	18155
mRNA Refseq	NM_001205075.1

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_001192004.1
UniProt ID	Q64387
SDS-PAGE	 15% SDS-PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA