

Recombinant Mouse Hcrt protein, His & GST-tagged

Cat. No. Hcrt-2651M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hcrt aa. (Gln33~Pro124 (Accession # O55241)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gln33~Pro124
Description	This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors Hcrt1 and Hcrt2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 8.2.

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Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. 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. The loss rate 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 liquid form in Phosphate buffered saline(PBS), pH 7.4.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4

GENE INFORMATION

Gene Name	Hcrt hypocretin [<i>Mus musculus</i> (house mouse)]
Official Symbol	Hcrt
Synonyms	Hcrt; hypocretin; PPOX; orexin; orexin A; orexin B; prepro-orexin
Gene ID	15171
mRNA Refseq	NM_010410.2
Protein Refseq	NP_034540.1
UniProt ID	O55241

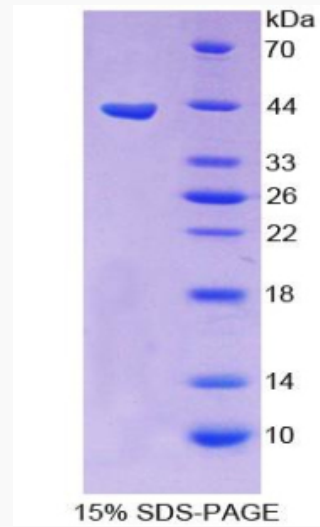
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SDS-PAGE



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