Recombinant Human HCRT Protein, His&SUMO-tagged

Cat. No. HCRT-1168H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HCRT Protein (Gln34-Met97) with His&SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln34-Met97
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 HCRTR1 and HCRTR2, 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: 20.5 kDa; Accurate Molecular Mass: 21 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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 centigrade for

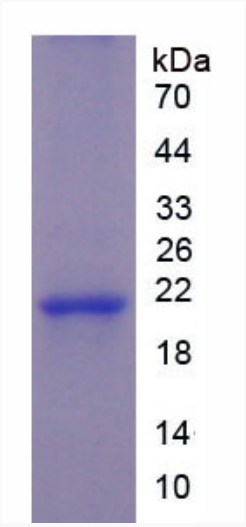
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	48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	HCRT hypocretin neuropeptide precursor [Homo sapiens (human)]
Official Symbol	HCRT
Synonyms	HCRT; hypocretin neuropeptide precursor; OX; PPOX; NRCLP1; orexin; hypocretin (orexin) neuropeptide; prepro-orexin;
Gene ID	3060
mRNA Refseq	NM_001524
Protein Refseq	NP_001515
MIM	602358
UniProt ID	O43612

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