

Recombinant Human Orexin-A/Hypocretin/HCRT Protein

Catalog No.: RP01920 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3060	O43612

Tags

N-hFc

Synonyms

HCRT; OX; PPORX; PPOX; Hypocretin neuropeptide precursor; Hypocretin; Hcrt; Orexin precursor; Prepro-orexin; Preprohypocretin; Cleaved into: Orexin-A; Hypocretin-1; Hcrt1; Orexin-B; Hypocretin-2; Hcrt2

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Endotoxin

< 0.1EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Orexin A/Hypocretin-1, Neuropeptides that play a significant role in the regulation of food intake and sleep-wakefulness, possibly by coordinating the complex behavioral and physiologic responses of these complementary homeostatic functions. A broader role in the homeostatic regulation of energy metabolism, autonomic function, hormonal balance and the regulation of body fluids, is also suggested. By Similarity Orexin-A binds to orexin receptors HCRTR1/OX1R and HCRTR2/OX2R with a high affinity. Stimulates food intake. Modulates pituitary luteinizing hormone secretion in an ovarian steroid-dependent manner.

Basic Information

Description

Recombinant Human Orexin-A/Hypocretin/HCRT Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln34-Leu66) of Human Orexin A/Hypocretin-1 (Accession #NP_001515.1) fused with a hFc tag at the N-terminus.

Bio-Activity

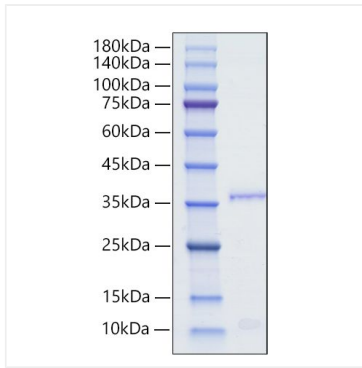
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Orexin A/Hypocretin-1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-40 kDa.