

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 % as determined by SDS- PAGE.

Calculated MW	Observed MW
29.54 kDa	35-40 kDa

Endotoxin

< 0.1 EU/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.

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 HCRT1/OX1R and HCRT2/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

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
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.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

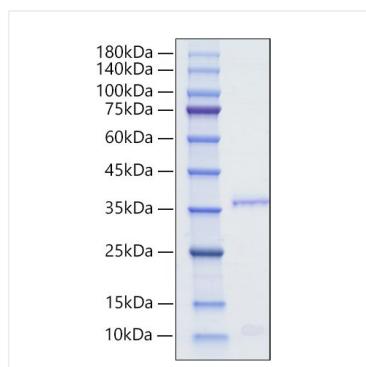
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Validation Data



Recombinant Human Orexin-A/Hypocretin/HCRT Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.