

## **PRODUCT INFORMATION**

**Target** HCRTR2

OX2R, Orexin receptor 2, Hypocretin receptor 2 **Synonyms** 

Recombinant human HCRTR2 Protein with C-**Description** 

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** 043614 **Expression Host HEK293** 

Tag C-Human Fc tag

Molecular

HCRTR2(Met1-Lys51) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 32.3 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

**Purity** 

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before Formulation &

lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

HCRTR2 (Orexin receptor 2 / Hypocretin receptor 2) is a G-protein coupled receptor (GPCR)

expressed in the central nervous system, particularly in hypothalamic neurons. It couples to

Gq and Gi/o proteins, activating PLC/Ca<sup>2+</sup>

**Background** 

signaling and modulating adenylyl cyclase and MAPK pathways. HCRTR2 regulates wakefulness, sleep-wake cycles, appetite, and energy homeostasis. Dysregulation is associated with narcolepsy, sleep disorders, and metabolic dysfunctions, making it a therapeutic target for

sleep and metabolic disorders.

Usage Research use only

Conjugate Unconjugated



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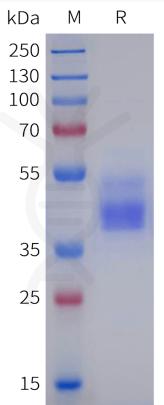


Figure 1. Human HCRTR2 Protein, hFc Tag on SDS-PAGE under reducing condition.

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