

## **PRODUCT INFORMATION**

**Target** HRH1

**Synonyms** H1R, Histamine H1 receptor, Histamine receptor 1

Recombinant human HRH1 Protein with C-**Description** 

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** P35367 **Expression Host HEK293** 

Tag C-Human Fc tag

Molecular

**Purity** 

**Background** 

HRH1(Met1-Leu27) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of **Molecular Weight** 29.1 kDa after removal of the signal peptide.

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

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.

HRH1 (Histamine receptor H1) is a G-protein coupled receptor (GPCR) that primarily couples to Gq/11 proteins, activating phospholipase C (PLC), increasing IP<sub>3</sub>/DAG levels and intracellular Ca<sup>2+</sup> mobilization. HRH1 is expressed in smooth muscle, endothelial cells, brain, and immune

cells, mediating allergic responses, vasodilation, bronchoconstriction, and neurotransmission.

Dysregulation of HRH1 signaling is associated with allergies, asthma, inflammation, and CNS disorders, making it a therapeutic target for antihistamines and allergy treatments.

Usage Research use only

Conjugate Unconjugated



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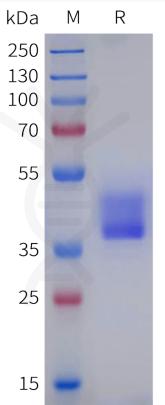


Figure 1. Human HRH1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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