PRODUCT INFORMATION

Target	HRH1
Synonyms	H1R, Histamine H1 receptor, Histamine receptor 1
Description	Recombinant human HRH1 Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P35367
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	HRH1(Met1-Leu27) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 29.1 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	HRH1 (Histamine receptor H1) is a G-protein coupled receptor (GPCR) that primarily couples to Gq/11 proteins, activating phospholipase C (PLC), increasing IP_3/DAG levels and intracellular Ca^{2+} 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

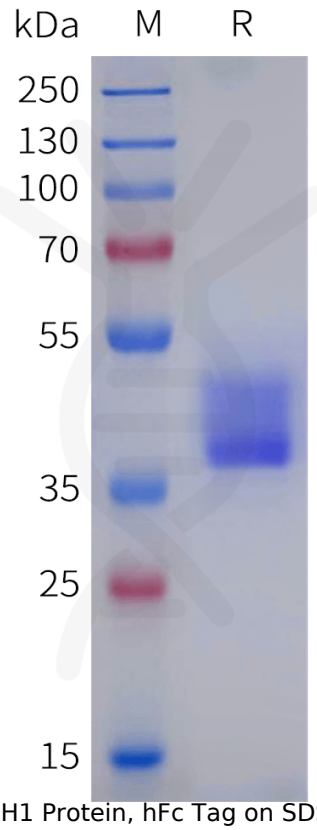

Figure 1. Human HRH1 Protein, hFc Tag on SDS-PAGE under reducing condition.

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