

Recombinant guinea pig Hrh1 Protein, His/FLAG-tagged

Cat. No. Hrh1-784G **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Guinea pig Histamine H1-Receptor and Regulator of G-protein Signaling 4 was co-expressed in Sf9 insect cells.
Species	Guinea pig
Source	Insect Cells
Description	The histamine H1-receptor (H1R) belongs to the superfamily of seven transmembrane-domain (7TM), G-protein-coupled receptors (GPCRs). The endogenous agonist for the H1R is histamine which is both neurotransmitter and autacoid. The H1R couples to Gq-proteins to activate phospholipase C. Numerous agonists and antagonists are known. H1R agonists are divided into three classes, i.e. small agonists derived from histamine, histamine derivatives with bulkier aromatic substituents at position 2 of the imidazole ring and histaprodifens. H1R antagonists are commonly divided into sedating (first-generation) and nonsedating (second-generation) antagonists. Today, especially the second-generation H1R antagonists are of great importance for the treatment of allergic diseases. Guanidines derived from arpromidine are dual H2R agonists/H1R antagonists. Small H1R agonists exhibit similar effects at human H1R (hH1R) and guinea pig H1R (gpH1R), whereas bulkier 2- phenylhistamines and histaprodifens are up to {tab??}10-fold more potent at gpH1R than at hH1R. Several firstgeneration H1R antagonists are {tab??}2-fold, and arpromidine-type H1R antagonists up to {tab??}10-fold more potent at gpH1R than at hH1R. The regulator of G-protein signaling 4 (RGS4) efficiently enhances steady-state GTP hydrolysis stimulated by H1R, thus providing a very sensitive model

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system for the pharmacological analysis of the H₁R directly at the G-protein level. gpH₁R + RGS4 were prepared from Sf9 cells coinfecting with gpH₁R- and RGS4-encoding baculoviruses. The protein contains a N-terminal FLAG-tag® and a C-terminal hexahistidine (His₆)-tag for immunological detection and protection against proteolysis.

Form 75 mM Tris-HCl pH 7.4, 12.5 mM MgCl₂ and 1 mM EDTA

Molecular Mass 36-50

Storage Store at -80 centigrade, avoid freeze/thaw cycles.

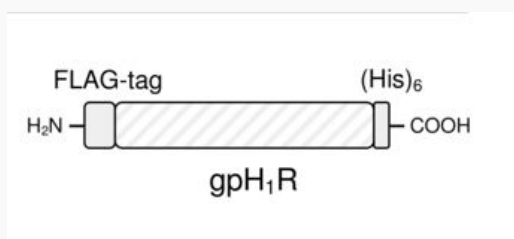
GENE INFORMATION

Gene Name Hrhl histamine receptor H1 [*Cavia porcellus*]

Official Symbol Hrhl

Synonyms Hrhl; histamine receptor H 1; histamine H1 receptor

Gene ID 100730517



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