

## Recombinant Human Histamine Receptor H 2

Cat. No. HRH2-1047H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	<p>The histamine H<sub>2</sub>-receptor (H<sub>2</sub>R) belongs to the superfamily of seven transmembrane domain (7TM), G-protein-coupled receptors (GPCRs). The endogenous agonist for the H<sub>2</sub>R is histamine which is both neurotransmitter and autacoid. The H<sub>2</sub>R couples to Gs-proteins to mediate adenylate cyclase (AC) activation. In some systems, the H<sub>2</sub>R also couples to Gq-proteins and phospholipase C. Among the many responses mediated by the H<sub>2</sub>R are gastric acid secretion, smooth muscle relaxation, positive inotropic and chronotropic effects on heart muscle, and inhibition of leukocyte function. The guinea pig H<sub>2</sub>R (gp H<sub>2</sub>R) was prepared from <i>Sf9 cells</i> infected with gp H<sub>2</sub>R -encoding baculovirus. In this system, gp H<sub>2</sub>R couples to the Gs-like G-proteins of the insect cells to mediate AC activation. gp H<sub>2</sub>R contains a N-terminal FLAG-tag and a C-terminal hexahistidine (His<sub>6</sub>)-tag for immunological detection, to allow purification, and to provide additional protection against proteolysis.</p>
<b>Form</b>	Membrane suspension. Supplied in 75 mM, Tris-HCl pH 7.4, 12.5 mM MgCl <sub>2</sub> and 1 mM EDTA.
<b>Usage</b>	For in vitro use only.
<b>Storage</b>	Quality guaranteed for 12 months. Store at -80°C. Avoid freeze / thaw cycles.

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## GENE INFORMATION

<b>Gene Name</b>	HRH2 histamine receptor H 1 [ <i>Cavia porcellus</i> ]
<b>Synonyms</b>	HRH2; histamine receptor H 2; Histamine H2 receptor; Gastric receptor I; gastric receptor 1; DBP1; DDX15; DHX15; H2R
<b>Gene ID</b>	3274
<b>mRNA Refseq</b>	NM_001131055
<b>Protein Refseq</b>	NP_001124527
<b>MIM</b>	142703
<b>UniProt ID</b>	P25021
<b>Chromosome Location</b>	5q35
<b>Pathway</b>	Calcium signaling pathway; Neuroactive ligand-receptor interaction; Signaling by GPCR
<b>Function</b>	G-protein coupled receptor activity; histamine receptor activity; receptor activity

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