

## Recombinant Guinea Pig Histamine Receptor H 2

Cat. No. Hrh2-1043G Lot. No. (See product label)

### SPECIFICATION

**Species** Guinea Pig

**Source** Sf9 Cells

**Description**

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 Sf9 cells 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.

**Form** Membrane suspension. Supplied in 75 mM Tris-HCl, pH 7.4, 12.5 mM MgCl<sub>2</sub> and 1 mM EDTA.

**Usage** For in vitro use only.

**Storage** 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
<b>Gene ID</b>	100135540
<b>UniProt ID</b>	P47747

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