

Recombinant Human Histamine Receptor H 2

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

SPECIFICATION

Product Overview

Species Human

Source Sf9 Cells

Description

The histamine H₂-receptor (H₂R) belongs to the superfamily of seven transmembrane domain (7TM), G-protein-coupled receptors (GPCRs). The endogenous agonist for the H₂R is histamine which is both neurotransmitter and autacoid. The H₂R couples to Gs-proteins to mediate adenylate cyclase (AC) activation. In some systems, the H₂R also couples to Gq-proteins and phospholipase C. Among the many responses mediated by the H₂R are gastric acid secretion, smooth muscle relaxation, positive inotropic and chronotropic effects on heart muscle, and inhibition of leukocyte function. The guinea pig H₂R (gp H₂R) was prepared from Sf9 cells infected with gp H₂R -encoding baculovirus. In this system, gp H₂R couples to the Gs-like G-proteins of the insect cells to mediate AC activation. gp H₂R contains a N-terminal FLAG-tag and a Cterminal hexahistidine (His6)-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 MgCl₂ 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

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

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