

Recombinant Guinea Pig Histamine Receptor H 2

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

SPECIFICATION

Product Overview

Species Guinea Pig

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 C-terminal 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 [Cavia porcellus]
Synonyms	Hrh2; histamine receptor H 2; histamine H2 receptor
Gene ID	100135540
UniProt ID	P47747

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