abcam

Product datasheet

Recombinant Human Histamine H2 Receptor co-expressed with G_{saS} protein ab90408

Description

Product name	Recombinant Human Histamine H2 Receptor co-expressed with G_{saS} protein
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Predicted molecular weight	78 kDa including tags
Tags	His tag C-Terminus , DDDDK tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab90408** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 7.40 Constituents: 0.11875% Magnesium chloride, 1.185% Tris HCl, 0.0292% EDTA

General Info

Relevance	The H2 subclass of histamine receptors mediates gastric acid secretion. It also appears to regulate gastrointestinal motility and intestinal secretion. HRH2 has a possible role in regulating cell growth and differentiation. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase and, through a separate G protein dependent mechanism, the phosphoinositide/protein kinase (PKC) signaling pathway. Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling

	systems. The Gs protein is involved in hormonal regulation of adenylate cyclase: it activates the cyclase in response to beta-adrenergic stimuli. Alternative splicing of downstream exons of the GNAS gene is observed, which results in different forms of the stimulatory G protein alpha subunit, a key element of the classical signal transduction pathway linking receptor-ligand interactions with the activation of adenylyl cyclase and a variety of cellular reponses. Multiple transcript variants have been found for this gene, but the full-length nature and/or biological validity of some variants have not been determined.
Cellular localization	Histamine H2 Receptor: Membrane; multi pass membrane protein.

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