rH$_2$R-G$_{s\alpha S}$
Histamine H$_2$-receptor-G$_{s\alpha S}$ fusion protein
rat, recombinant, SF9 insect cells

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<tbody>
<tr>
<td>PR-1309</td>
<td>1 ml</td>
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Description:
rH$_2$R G$_{s\alpha S}$ is a fusion protein in which the G$_{s\alpha S}$ N terminus is linked to the C terminus of the rat H$_2$ receptor (rH$_2$R) via a hexahistidine (His6)-tag. The H$_2$R couples to G$_s$ proteins to activate adenylate cyclase (AC). Among the many responses mediated by the H$_2$R are gastric acid secretion, smooth muscle relaxation, ionotropic and chronotropic effects on heart muscle, and inhibition of leukocyte function. G$_{s\alpha S}$ is the short splice variant of the a subunit of the heterotrimeric G protein G$_s$. G$_s$ activates the effector AC. The fusion protein rH$_2$R G$_{s\alpha S}$ ensures a defined 1:1 stoichiometry of the receptor and G$_{s\alpha S}$ subunit. The fusion protein allows for highly sensitive analysis of receptor/G-protein coupling in terms of ternary complex formation, guanine nucleotide exchange and AC activity. The fusion protein contains a N terminal FLAG-tag™ for immunological detection.

For in vitro use only!

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Molecular Weight: 80 kDa

Accession number: NM_012965

Form: Membrane suspension (Supplied in 75 mM Tris-HCl pH 7.4, 12.5 mM MgCl$_2$ and 1 mM EDTA)

Selected References:
