

Active Recombinant Human Adrenergic, Beta-1-, Receptor, Flag-His

Cat. No. ADRB1-1017H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source Sf9 Cells

Description

The human1-adrenoreceptor (1AR) is activated by the catecholamines epinephrine and norepinephrine and couples to the G-protein Gs to mediate adenylate cyclase activation. Theβ1AR exists as several polymorphic forms of which the Gly389 and Arg389 variants are among the best known. There is a controversy whether or not there are functional differences between the two β1AR polymorphisms. β1ARs are mainly found in the heart, kidney, and fat tissue. These receptors are involved in physiological processes such heart contraction, renin release and lipolysis. The protein contains a N-terminal FLAG-tag and a C- terminal his 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 1Mm EDTA.

Activity

14 pmol/mg.

Usage

For in vitro use only.

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Storage Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles

GENE INFORMATION

Gene Name [ADRB1 adrenergic, beta-1-, receptor \[Homo sapiens \]](#)

Synonyms ADRB1; adrenergic, beta-1-, receptor; RHR; B1AR; ADRB1R; BETA1AR; Beta-1 adrenergic receptor; Beta-1 adrenoceptor; Beta-1 adrenoreceptor; OTTHUMP00000020519; beta-1-adrenergic receptor

Gene ID [153](#)

mRNA Refseq [NM_000684](#)

Protein Refseq [NP_000675](#)

MIM [109630](#)

UniProt ID [P08588](#)

Chromosome Location 10q24-q26

Pathway Calcium signaling pathway; Dilated cardiomyopathy; Endocytosis; Gap junction; Neuroactive ligand-receptor interaction

Function G-protein coupled receptor activity; PDZ domain binding; beta1-adrenergic receptor activity; dopamine binding; drug binding; epinephrine binding; norepinephrine binding; protein binding; receptor activity

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