Recombinant Human GNAQ

Cat. No. ADRB2-30059TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full length Human ADRB2 with N terminal FLAG tag and C terminal His tag, fused to the N terminal Human Gqα expressed in Sf9 insect cells.
Species	Human
Description	This gene encodes beta-2-adrenergic receptor which is a member of the G protein-coupled receptor superfamily. This receptor is directly associated with one of its ultimate effectors, the class C L-type calcium channel Ca(V)1.2. This receptor-channel complex also contains a G protein, an adenylyl cyclase, cAMP-dependent kinase, and the counterbalancing phosphatase, PP2A. The assembly of the signaling complex provides a mechanism that ensures specific and rapid signaling by this G protein-coupled receptor. This gene is intronless. Different polymorphic forms, point mutations, and/or downregulation of this gene are associated with nocturnal asthma, obesity and type 2 diabetes.
Conjugation	FLAG,His
Biological activity	Activity:3.4-12.3 pmol/mg.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 75mM Tris HCl, 12.5mM Magnesium chloride, 1mM EDTA, pH 7.4
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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	cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	ADRB2 adrenergic, beta-2-, receptor, surface [Homo sapiens]
Official Symbol	ADRB2
Synonyms	ADRB2; adrenergic, beta-2-, receptor, surface; ADRB2R; beta-2 adrenergic receptor; ADRBR; B2AR; BAR;
Gene ID	154
mRNA Refseq	NM_000024
Protein Refseq	NP_000015
Uniprot ID	P07550
Chromosome Location	5q31-q32
Pathway	Adrenoceptors, organism-specific biosystem; Amine ligand-binding receptors, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Arf6 trafficking events, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;
Function	G-protein coupled receptor activity; adenylate cyclase binding; adrenergic receptor activity; beta2-adrenergic receptor activity; dopamine binding;

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