

# Recombinant Human GNB1

**Cat. No.** ADRB2-31550TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human ADBR2 with N terminal FLAG tag and C terminal His tag, fused with Giα2 co-expressed with β 1 and γ 2 in Sf9 insect cells.
<b>Species</b>	Human
<b>Description</b>	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.
<b>Conjugation</b>	FLAG,His
<b>Biological activity</b>	Activity:3.5-7.7 pmol/mg.
<b>Form</b>	Liquid
<b>Storage buffer</b>	Preservative: None Constituents: 75mM Tris HCl, 12.5mM Magnesium chloride, 1mM EDTA, pH 7.4
<b>Storage</b>	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; adenylyate cyclase binding; adrenergic receptor activity; beta2-adrenergic receptor activity; dopamine binding;

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