

Recombinant Human GNB5, His-tagged

Cat. No. GNB5-29091TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-353 of Human GNB5 isoform 2, with a N terminal His tag; MWt 46kDa ;
Species	Human
Source	E.coli
ProteinLength	1-353 a.a.
Description	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternatively spliced transcript variants encoding different isoforms exist.
Conjugation	HIS
Tissue specificity	Expressed in multiple tissues.
Form	Lyophilised:Reconstitution with 112 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MATEGLHENETLASLKSEAESLKGGLEERAKLHDVELHQ VAERVEALGQFVMKTR RTLKGHGKVLKMDWCKDKRRI VSSSQDGKVIVWDSFTTNKEHAVTMPCTWVMA CAYAPS GCAIACGGLDNKCSVYPLTFDKNENMAAKKKSVMHTNYL SACSFTNSD MQILTASGDGTCALWDVESGQLLQSFHGH GADVLCLDLAPSETGNTFVSGGCDKK AMVWDMRSGQCV QAFETHESDINSVRYYPGDAFASGSDDATCRLYDLRA DREV AIYSKESIIFGASSVDFSLSGRLLFAGYNDYTINWV DVLKGSRVSLFGHENRVSTLR VSPDGTAFCSGSWDHT LRVWA
Sequence Similarities	Belongs to the WD repeat G protein beta family.Contains 7 WD repeats.
Full Length	Full L.

GENE INFORMATION

Gene Name	GNB5 guanine nucleotide binding protein (G protein), beta 5 [Homo sapiens]
Official Symbol	GNB5
Synonyms	GNB5; guanine nucleotide binding protein (G protein), beta 5; guanine nucleotide-binding protein subunit beta-5; GB5;
Gene ID	10681
mRNA Refseq	NM_006578
Protein Refseq	NP_006569
MIM	604447

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Uniprot ID	O14775
Chromosome Location	15q21.1
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Aquaporin-mediated transport, organism-specific biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem;
Function	GTPase activity; signal transducer activity;

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