

Recombinant Full Length Human GNB3 Protein, GST-tagged

Cat. No. GNB3-5370HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GNB3 full-length ORF (AAH02454, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	340 amino acids
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. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Additional splice variants may exist for this gene, but they have not been fully described. [provided by RefSeq]
Molecular Mass	63.14 kDa
AA Sequence	MGEMEQLRQEAEQLKKQIADARKACAGVTLAELVSGLEVVGRRVQMRTRRTRLRGHL AKIYAMHWATDSKLLVSASQDGLIVWDSYTTNKVHAIPLRSSWVMTCAYPSPGNF

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VACGGLDNMCSIYNLKSREGNVKVSRELSAHTGYLSCCRFLDDNNIVTSSGDTTICAL
 WDIETGQQKTVFVGHTGDCMSLAVSPDFNLFISGACDASAKLWDVREGTCRQTFT
 GHESDINAICFFPNGEAICTGSDDASCRLFDLRADQELICFSHESIICSITSVAFSLSGR
 LLFAGYDDFNCNVWDSMKSERVGILSGHDNRVSLGVTADGMAVATGSWDSFLKI
 WN

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name
 GNB3 guanine nucleotide binding protein (G protein), beta polypeptide 3 [Homo sapiens]

Official Symbol
 GNB3

Synonyms
 GNB3; guanine nucleotide binding protein (G protein), beta polypeptide 3; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3; transducin beta chain 3; G protein, beta-3 subunit; hypertension associated protein; GTP-binding regulatory protein beta-3 chain; guanine nucleotide-binding protein G(I)/G(S)/G(T) beta subunit 3;

Gene ID
 2784

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mRNA Refseq	NM_002075
Protein Refseq	NP_002066
MIM	139130
UniProt ID	P16520

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