

Recombinant Human guanine nucleotide binding protein (G protein), beta polypeptide 3, His-tagged

Cat. No. GNB3-299H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNB3, 1-340aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-340 a.a.
Description	GNB3 is important regulator of alpha subunit, as well as of certain signal transduction receptor and effector. A single-nucleotide polymorphism (C825T) in this protein 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. Recombinant human GNB3 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
Molecular Mass	39.6 kDa(363aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGEMEQQL RQEAEQLKKQ IADARKACAD VTLAELVSGL EVVGRVQMRT RRTLGRHLAK IYAMHWATDS KLLVSASQDG KLIVWDSYTT NKVHAIP LRS SWVMTCAYAP SGNFVACGGL DNMCSIYNLK

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SREGNVKVSRL ELSAHTGYLS CCRFLDDNNI VTSSGDTTCA LWDIETGQQK
TVFVGHTGDC MSLAVSPDFN LFISGACDAS AKLWDVREGT CRQTFTGHES
DINAICFFPN GEAICTGSDD ASCRLFDLRA DQELICFSHE SIICGITSVA
FSLSGRLLFA GYDDFNCNVW DSMKSERVGI LSGHDNRVSC LGVTADGMAV
ATGSWDSFLKIWN

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

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

mRNA Refseq NM_002075

Protein Refseq NP_002066

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MIM	139130
UniProt ID	P16520
Chromosome Location	12p13
Pathway	ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; ADP signalling through P2Y purinoceptor 12, organism-specific biosystem; Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, 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; GTPase binding; signal transducer activity;