

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

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

## SPECIFICATION

<b>Product Overview</b>	GNB3, 1-340aa, Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-340 a.a.
<b>Description</b>	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.
<b>Form</b>	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea
<b>Molecular Mass</b>	39.6 kDa(363aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMGEMEQ L RQEAEQLKKQ IADARKACAD VTLAELVSG L EVVGRVQMRT RRTLGRHLAK IYAMHWATDS KLLVSASQDG KLIVWDSYTT NKVHAIPLRS SWVMT CAYAP SGNFVACGGL DNMCSIYNLK

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SREGNVKVSRL ELSAHTGYLS CCRFLDDNNI VTSSGDTTCA LWDIETGQQK  
 TVFVGHTGDC MSLAVSPDFN LFISGACDAS AKLWDVREGT CRQTFTGHES  
 DINAICFFPN GEAICTGSDD ASCRFLDLRA DQELICFSHE SIICGITSVA  
 FLSLGRLLFA 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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<b>MIM</b>	139130
<b>UniProt ID</b>	P16520
<b>Chromosome Location</b>	12p13
<b>Pathway</b>	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;
<b>Function</b>	GTPase activity; GTPase binding; signal transducer activity;

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