

Recombinant Human GNB1, His-tagged

Cat. No. GNB1-172H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GNB1, 1-340aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-340aa
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. GNB1 encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Recombinant human GNB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	39.8kDa (363aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMSELDQL RQEAEQLKNQ IRDARKACAD ATLSQITNNI DPVGRIQMRT RRTLRLGHLAK IYAMHWGTDS RLLVSASQDG KLIWDSYTT NKVHAIP LRS SWVMT CAYAP SGNYVACGGL DNICSIYNLK TREGNVRVSR ELAGHTGYLS CCRFLDDNQI VTSSGDTTCA LWDIETGQQT TTFTGHTGDV MSLSLAPDTR LFVSGACDAS AKLWDVREGM CRQTFTGHES

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DINAICFFPN GNAFATGSDD ATCRLFDLRA DQELMTYSHD NIICGITSVS
FSKSGRLLLA GYDDFNCNVW DALKADRAGV LAGHDNRVSC LGVTDDGMAV
ATGSWDSFLK IWN

Purity >85% 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 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name GNB1 guanine nucleotide binding protein (G protein), beta polypeptide 1 [Homo sapiens]

Official Symbol GNB1

Synonyms GNB1; guanine nucleotide binding protein (G protein), beta polypeptide 1; guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1; transducin beta chain 1; G protein, beta-1 subunit; beta subunit, signal-transducing proteins GS/GI; guanine nucleotide-binding protein G(I)/G(S)/G(T) beta subunit 1;

Gene ID 2782

mRNA Refseq NM_002074

Protein Refseq NP_002065

MIM 139380

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UniProt ID	P62873
Chromosome Location	1p36.33
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; CXCR3-mediated signaling events, organism-specific biosystem;
Function	G-protein coupled receptor binding; GTPase activity; GTPase binding; signal transducer activity; type 1 angiotensin receptor binding;

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