

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	<p>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.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
Molecular Mass	39.8kDa (363aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSMSELDQL RQEAEQLKNQ IRDARKACAD ATLSQITNNI DPVGRIQMRT RRTLRLGHLAK IYAMHWGTDS RLLVSASQDG KLIWDSYTT NKVHAIPLRS SWVMTCAYAP SGNYVACGGL DNICSIYNLK TREGNVRVSR ELAGHTGYLS CCRFLDDNQI VTSSGDTTCA LWDIETGQQT TTFTGHTGDV MSLSLAPDTR LFSVSGACDAS AKLWDVREGM CRQTFTGHES</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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