

## Recombinant Human GNB1, His-tagged

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

### SPECIFICATION

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

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

 Email: [info@creative-biomart.com](mailto: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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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | <a href="#">P62873</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Chromosome Location</b> | 1p36.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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; CXCR3-mediated signaling events, organism-specific biosystem; |
| <b>Function</b>            | G-protein coupled receptor binding; GTPase activity; GTPase binding; signal transducer activity; type 1 angiotensin receptor binding;                                                                                                                                                                                                                                                                                                                                                                     |

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