

## 32-3901: GNB1 Recombinant Protein

**Alternative Name :** Guanine Nucleotide Binding Protein (G Protein) Beta Polypeptide 1,Transducin Beta Chain 1,GNB1.

### Description

Source : Escherichia Coli. GNB1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 363 amino acids (1-340) and having a molecular mass of 39.8 kDa.GNB1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Heterotrimeric guanine nucleotide-binding proteins (G proteins) which integrate signals between receptors and effector proteins, are comprised of an alpha, a beta and a gamma subunit. The alpha, beta and gamma subunits are encoded by families of related genes. GNB1 encodes a beta subunit. Beta subunits are vital regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. G proteins are involved as a modulator or transducer in numerous transmembrane signaling systems. The beta and gamma chains are necessary for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 85.0% as determined by SDS-PAGE.

**Content :** The GNB1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSMSELDQL RQAEQLKNQ IRDARKACAD ATLSQITNNI  
DPVGRIQMRT RRTLGRHLAK IYAMHWGTDS RLLVSASQDG KLIWDSYTT NKVHAIPLRS SWVMTCAYAP  
SGNYVACGGL DNICSIYNLK TREGNVRVSR ELAGHTGYLS CCRFLDDNQI VTSSGDTTCA LWDIETGQQT  
TTFTGHTGDV MSLSLAPDTR LRVSGACDAS AKLWDVREGM CRQTFTGHES DINAICFFPN GNAFATGSDD  
ATCRLFDLRA DQELMTYSHD NIICGITSVS FSKSGRLLLA GYDDFNCNVW DALKADRAGV LAGHDNRVSC  
LGVTDGMAV ATGSWDSFLK IWN.

