

GNB1, 1-340aa, Human, His tag, E.coli

Cat.NO.: TP02289

3th Edition

Synonyms: guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1, guanine nucleotide binding protein (G protein), beta polypeptide 1

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 Weight: 39.8kDa (363aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMSELDQLRQEAQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTL
R
GHLAKIYAMHWGTDSRLLVSASQDGKLIWDSYTTNKVHAIPLRSSWVMTCA YAPSGNYVACGGLDNICSIYNLKTR
E
EGNVRVSRELAGHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTF TGHTGDVMSLSLAPDTRLFVSGAC
D
DASAKLWDVREGMCRQTF TGHESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSKS
G
GRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRVSLGVTDDGMAVATGSWDSFLKIWN

Purity: > 95% by HPLC

Concentration: 0.25 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.