

Recombinant human GNB1 protein

Catalog Number: ATGP2665

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-340aa

UniProt No.

P62873

NCBI Accession No.

NP_002065

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

39.8 kDa (363aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGS>MSELDQL RQEAEQLKNQ IRDARKACAD ATLSQITNNI DPVGRIQMRT
RRTLRLGHLAK IYAMHWGTDS RLLVSASQDG KLIWDSYTT NKVHAIPLRS SWVMTCAAYAP SGNVYACGGL DNICSIYNLK
TREGNVRVSR ELAGHTGYLS CCRFLDDNQI VTSSGDTTCA LWDIETGQQT TTFTGHTGDV MSLSLAPDTR LRVSGACDAS
AKLWDVREGM CRQFTFGHES DINAICFFPN GNAFATGSDD ATCRLFDLRA DQELMTYSHD NIICGITSVS FSKSGRLLLA
GYDDFNCNVW DALKADRAGV LAGHDNRVSC LGVTDDGMAV ATGSWDSFLK IWN

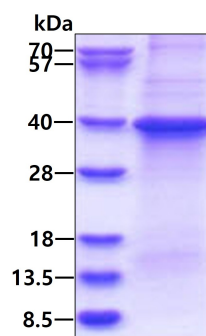
General References

Bhatnagar,A, et al. (2013) PLoS ONE 8 (1), E52689

Lim,Y.P., et al. (2012) BMC Gastroenterol 12, 167

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.