

Recombinant human GNB3 protein

Catalog Number: ATGP2382

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-340aa

UniProt No.

P16520

NCBI Accession No.

NP_002066

Alternative Names

Guanine nucleotide-binding protein subunit beta-3, Guanine nucleotide binding protein (G protein), beta polypeptide 3

PRODUCT SPECIFICATION

Molecular Weight

39.6 kDa (363aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 80% 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

GNB3 is important regulator of alpha subunit, as well as of certain signal transduction receptor and effector. A single-nucleotide polymorphism (C825T) in this protein is associated with essential hypertension and obesity. This polymorphism is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity. GNB3-s is an example of alternative splicing caused by a nucleotide change outside of the splice donor and acceptor sites. Additional splice variants may exist for this gene, but they have not been fully

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described. Recombinant human GNB3 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

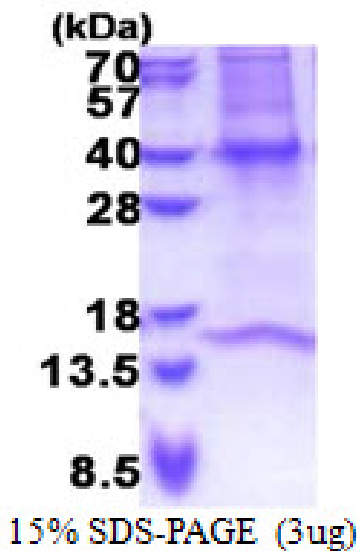
MGSSHHHHHHH SSSLVPRGSH MGSMGEMEQL RQAEQLKKQ IADARKACAD VTLAELVSLG EVVGRVQMRT
RRTLRLGHLAK IYAMHWATDS KLLVSASQDG KLIVWDSYTT NKVHAIPLRS SWVMTCAAYAP SGNFVACGGL DNMCSIYNLK
SREGNVKVSRL ELSAHTGYLS CCRFLDDNNI VTSSGDTTCA LWDIETGQOK TVFVGHTGDC MSLAVSPDFN LFISGACDAS
AKLWDVREGT CRQTFTGHES DINAICFFPN GEAICTGSDD ASCRLFDLRA DQELICFSHE SIICGITSVA FSLSGRLLFA
GYDDFNCNVW DSMKSERVGI LSGHDNRVSC LGVTADGMAV ATGSWDSFLK IWN

General References

Wedegaertner PB. et al. (1995) J. Biol. Chem. 270: 503-506.
Sartori M. et al. (2005) Ann. Ital. Med. Int. 19: 240-248.

DATA

SDS-PAGE



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