
Product Data Sheet

Product Name: GNB3 Human
 Cat. No.: GP23576
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Transducin Beta Chain 3; G Protein; Beta-3 Subunit; GTP-BindingRegulatory Protein Beta-3 Chain; Guanine Nucleotide-Binding ProteinG(I)/G(S)/G(T) Beta Subunit 3; Guanine Nucleotide-Binding ProteinG(I)/G(S)/G(T) Subunit Beta-3; Hypertension Associated Protein; GuanineNucleotide Binding Protein (G Protein); Beta Polypeptide 3; GNB3.

Amino Acid Sequence MGSSHHHHH SSGLVPRGSH MGSMGEMEQ L RQEAEQLKKQ IADARKACAD VTLAELV SGL EVVGRVQMRT RRTL RGH LAK IYAMHWATDS KLLVSASQDG KLIVWDSYTT NKVHAIP LRS SWVMTCAYAP SGNFVACGGL DNMCSIYNLK SREGNVK VSR ELSAHTGYLS CCRFLDDNNI VTSSGDTTCA LWDIETGQQK TVFVGHTGDC MSLAVSPDFN LFISGACDAS AKLWDVREGT CRQTF TG HES DINAICFFPN GEAICTGSDD ASCRFLDLRA DQELICFSHE SIICGITSVA FLSG RLLFA GYDDFNCNVW DSMKSERVGI LSGHDNRVSC LGVTADGMAV ATGSWDSFLK IWN.

Formulation GNB3 protein solution (0.5mg/ml) containing 20mM Tris-HClbuffer (pH8.0), 10% glycerol and 0.4M Urea.

Introduction

GNB3 belongs to the WD repeat G protein beta family. GNB3 is an important regulator of alpha subunit, as well as of certain signal transduction receptor and effector. A single-nucleotide polymorphism (C825T) in GNB3 is linked with essential hypertension and obesity. In addition, this polymorphism is also linked with the occurrence of the splice variant GNB3-s, which seems 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. Further splice variants may exist for GNB3, however they have not been

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fully described. Among the diseases associated with GNB3 are syncope, and aortic coarctation.

Stability

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.

Background

GNB3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 363 amino acids (1-340 a.a) and having a molecular mass of 39.6kDa.

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