9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

GNB3 Human

Guanine Nucleotide Binding Protein Beta Polypeptide 3 Human Recombinant
RCP0941

Product Overview

Name	GNB3 Human
Description	
Guanine Nucleotide Binding Protein Beta Polypeptide 3 Human Recombinant	
Accession (Primary)	P16520
Synonyms	
Transducin Beta Chain 3, G Protein, Beta-3 Subunit, GTP-Binding Regulatory Protein Beta-3 Chain, Guanine Nucleotide-Binding Protein G(I)/G(S)/G(T) Beta Subunit 3, Guanine Nucleotide-Binding Protein G(I)/G(S)/G(T) Subunit Beta-3, Hypertension Associated Protein, Guanine Nucleotide Binding Protein (G Protein), Beta Polypeptide 3, GNB3.	
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 fully described. Among the diseases associated with GNB3 are syncope, and aortic coarctation.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
GNB3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.4M Urea.	
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.	
Purity	
Greater than 80.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MGEMEQL RQEAEQLKKQ IADARKACAD VTLAELVSGL EVVGRVQMRT	

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RRTLRGHLAK IYAMHWATDS KLLVSASQDG KLIVWDSYTT NKVHAIPLRS SWVMTCAYAP SGNFVACGGL DNMCSIYNLK SREGNVKVSR ELSAHTGYLS CCRFLDDNNI VTSSGDTTCA LWDIETGQQK TVFVGHTGDC MSLAVSPDFN LFISGACDAS AKLWDVREGT CRQTFTGHES DINAICFFPN GEAICTGSDD ASCRLFDLRA DQELICFSHE SIICGITSVA FSLSGRLLFA GYDDFNCNVW DSMKSERVGI LSGHDNRVSC LGVTADGMAV ATGSWDSFLK IWN.

Precautions

GNB3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P16520)