

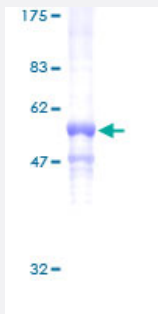
Full-Length

GNB3 (Human) Recombinant Protein (P01)

Catalog # H00002784-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human GNB3 full-length ORF (AAH02454, 1 a.a. - 340 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGEMEQLRQEAQLKKQIADARKACAGVTLAELVSGLEVVGGRVQMRTRRTLGRHLAKIYAMHWA
TDSKLLVSASQDGKLIWDSYTTNKVHAIPLRSSWVMTCAYAPSGNFVACGGLDNMCSYNLKS
R EGNVKVSRELSAHTGYLSCCRFLDDNNVTSSGDTTCALWDIETGQQKTVFVGHTGDCMSLA
VS PDFNLFISGACDASAKLWDVREGTCRQFTFGHESDINAICFFPNGEAICTGSDDASCRLFD
LRAD QELICFSHESIICSITSVAFSLSGRLLFAGYDDFN CNVWDSMKSERVGILSGHDNRV
SCLGVTADG MAVATGSWDSFLKIWN

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

63.14

Interspecies Antigen Sequence

Mouse (96); Rat (96)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GNB3

Entrez GeneID[2784](#)**GeneBank Accession#**[BC002454](#)**Protein Accession#**[AAH02454](#)**Gene Name**

GNB3

Gene Alias

-

Gene Description

guanine nucleotide binding protein (G protein), beta polypeptide 3

Omim ID[139130 145500](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. A single-nucleotide polymorphism (C825T) in this gene 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 described. [provided by RefSeq]

Other Designations

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, beta-3 subunit|hypertension associated protein|transducin beta chain 3

Pathway

- [Chemokine signaling pathway](#)
- [Taste transduction](#)

Disease

- [Abdominal Pain](#)
- [Acute Disease](#)
- [Adenoma](#)
- [Albuminuria](#)
- [Alcoholism](#)
- [Altitude Sickness](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Angina Pectoris](#)
- [Arrhythmia](#)
- [Arrhythmias](#)
- [Arterial Occlusive Diseases](#)
- [Arteriosclerosis](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Atrial Fibrillation](#)
- [Autonomic Nervous System Diseases](#)
- [Bile Duct Neoplasms](#)
- [Bipolar Disorder](#)
- [Birth Weight](#)

- [Body Weight](#)
- [Bone Neoplasms](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Calcinosis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Carotid Stenosis](#)
- [Cerebral Palsy](#)
- [Cerebrovascular Accident](#)
- [Cholangiocarcinoma](#)
- [Chorioamnionitis](#)
- [Chronic Disease](#)
- [Cicatrix](#)
- [Cluster Headache](#)
- [Constriction](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Death](#)
- [Depressive Disorder](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)

- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Dyskinesia](#)
- [Dyspepsia](#)
- [Edema](#)
- [Electroconvulsive Therapy](#)
- [Fetal Membranes](#)
- [Gastroesophageal Reflux](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glomerulonephritis](#)
- [Head and Neck Neoplasms](#)
- [Heart Diseases](#)
- [HELLP Syndrome](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hypercholesterolemia](#)
- [Hyperlipidemias](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Hypertriglyceridemia](#)
- [Hypertrophy](#)
- [Hyperuricemia](#)
- [Hypotension](#)
- [Impotence](#)
- [Infection](#)

- [Inflammation](#)
- [Insulin Resistance](#)
- [Irritable Bowel Syndrome](#)
- [Kidney Diseases](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Limb Deformities](#)
- [Liver Cirrhosis](#)
- [Low Back Pain](#)
- [Lymphatic Metastasis](#)
- [Macular Degeneration](#)
- [Mental Disorders](#)
- [Metabolic Syndrome X](#)
- [Migraine Disorders](#)
- [Mood Disorders](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Myocardial Ischemia](#)
- [Neoplasm Recurrence](#)
- [Neovascularization](#)
- [Obesity](#)
- [Obstetric Labor](#)
- [Opioid-Related Disorders](#)
- [Osteoarthritis](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)

- [Overweight](#)
- [Perception](#)
- [Personality Assessment](#)
- [Personality Inventory](#)
- [Polycystic Kidney](#)
- [Polycystic kidney disease](#)
- [Polycystic Ovary Syndrome](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Psychological Tests](#)
- [Puberty](#)
- [Recurrence](#)
- [Renal Insufficiency](#)
- [Satiation](#)
- [Schizophrenia](#)
- [Seasonal Affective Disorder](#)
- [Sensation](#)
- [Sexual Dysfunction](#)
- [Sexual Dysfunctions](#)
- [Sleep Apnea](#)
- [Stress](#)
- [Stroke](#)
- [Substance Abuse](#)

- [Substance Withdrawal Syndrome](#)
- [Substance-Related Disorders](#)
- [Sudden Infant Death](#)
- [Syncope](#)
- [Taste](#)
- [Thrombophilia](#)
- [Thyroid Diseases](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Vascular Diseases](#)
- [Vesico-Ureteral Reflux](#)
- [Weight Gain](#)
- [Weight Loss](#)
- [Werner syndrome](#)