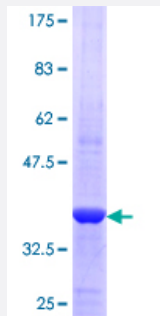


GBA (Human) Recombinant Protein (Q02)

Catalog # H00002629-Q02

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human GBA partial ORF (NP_000148.2, 431 a.a. - 536 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NWVRNFVDSPIMDITKDTFYKQPMFYHLGHFSKFIPEGSRVGLVASQKNDLDAVALMHPDGSA VVVVLNRSSKDVPLTIKDPAVGFLETISPGYSIHTYLWRRQ
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.4
Interspecies Antigen Sequence	Mouse (86); Rat (91)
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 — GBA

Entrez GeneID	2629
GeneBank Accession#	NM_000157
Protein Accession#	NP_000148.2
Gene Name	GBA
Gene Alias	GBA1, GCB, GLUC
Gene Description	glucosidase, beta; acid (includes glucosylceramidase)
Omim ID	230800 230900 231000 231005 606463 608013
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a lysosomal membrane protein that cleaves the beta-glucosidic linkage of glycosylceramide, an intermediate in glycolipid metabolism. Mutations in this gene cause Gaucher disease, a lysosomal storage disease characterized by an accumulation of glucocerebrosides. A related pseudogene is approximately 12 kb downstream of this gene on chromosome 1. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]
Other Designations	D-glucosyl-N-acylsphingosine glucosylhydrolase OTTHUMP00000033992 OTTHUMP00000033993 glucocerebrosidase glucocerebrosidase (alt.) lysosomal glucocerebrosidase

Pathway

- [Lysosome](#)
- [Metabolic pathways](#)
- [Other glycan degradation](#)

- [Sphingolipid metabolism](#)

Disease

- [Alzheimer disease](#)
- [Bone Diseases](#)
- [Cardiovascular Diseases](#)
- [Cognition Disorders](#)
- [Cystic fibrosis](#)
- [Deafness](#)
- [Dementia](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Epilepsy](#)
- [Essential tremor](#)
- [Gaucher disease](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypergammaglobulinemia](#)
- [Hypertension](#)
- [Lewy Body Disease](#)
- [Multiple Myeloma](#)
- [Multiple System Atrophy](#)
- [Neoplasms](#)
- [Nervous System Diseases](#)
- [Neuropsychological Tests](#)

- [Parkinson disease](#)
- [Parkinsonian Disorders](#)
- [Postmortem Changes](#)
- [Supranuclear Palsy](#)