

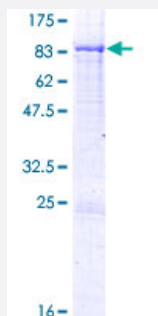
Full-Length

HEXB (Human) Recombinant Protein (P01)

Catalog # H00003074-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human HEXB full-length ORF (NP_000512.1, 1 a.a. - 556 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALWPLPLSVK
MTPNLLHLAPENFYISHSPNSTAGPSC TLLEEA FRRYHG YIFGFYKWHHEPAEFQAKTQVQQLLSI
TLQSECDAFPNISSDESYLLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSP
RFSHRGILIDTSRHYLPVKIILKTLDAMAFNKFNVLHWHVDDQSFPYQSITFPELSNKGSYSLSHVYT
PNDVRMVEIYARLRGIRVLPEFDTPGHTLSWGKGQKDLLTPCYSRQNKLD SFGPINPTLNTTYSFLT
TFFKEISEVFPDQFIHLGGDEVEFKCWESNPKIQDFMRQKGF GTDFKKLESFYIQKVLDIATINKGS
NWQEVFDDKAKLAPGTIVEVWKDSAYPEELSRVTASGFPVILSAPWYLDLISYGQDWRKYKVE
PLDFGGTQKQKQLFIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKDVRDMDDAYDRLT
RHRCRMVERGIAAQPLYAGYCNHENM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

89.5

Interspecies Antigen Sequence

Mouse (78); Rat (74)

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 — HEXB

Entrez GeneID	3074
GeneBank Accession#	NM_000521.2
Protein Accession#	NP_000512.1
Gene Name	HEXB
Gene Alias	ENC-1AS
Gene Description	hexosaminidase B (beta polypeptide)
Omim ID	268800 606873
Gene Ontology	Hyperlink

Gene Summary	Hexosaminidase B is the beta subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Mutations in the alpha or beta subunit genes lead to an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders termed the GM2 gangliosidoses. Beta subunit gene mutations lead to Sandhoff disease (GM2-gangliosidosis type II). [provided by RefSeq]
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Other Designations

N-acetyl-beta-glucosaminidase|OTTHUMP00000128232|hexosaminidase B

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Glycosaminoglycan degradation](#)
- [Glycosphingolipid biosynthesis - ganglio series](#)
- [Glycosphingolipid biosynthesis - globo series](#)
- [Lysosome](#)
- [Metabolic pathways](#)
- [Other glycan degradation](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Tay-Sachs disease](#)