

Recombinant Human HEXB Protein, GST-tagged

Cat. No. HEXB-4711H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human HEXB full-length ORF (NP_000512.1, 1 a.a. - 556 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	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]
Molecular Mass	89.5 kDa
AA Sequence	MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALW PLPLSVKMTPNLLHLAPENFYISHSPNSTAGPSCTLLEEFRRYHGYIFGFYKWHHE PAEFQAKTQVQQLLVSITLQSECDAFPNISSDESYTLLVKEPVAVLKANRVWGALRG LETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTLDAMAFNKFN VLHWHIVDDQSFYQSIITFPELSNKGSYSLSHVYTPNDVRMVEYARLRGIRVLPEFD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

TPGHTLSWVGKQKDLLTPCYSRQNKLDSFGPINPTLNTTYSFLTTFKKEISEVFPDQF
 IHLGGDEVEFKCWESNPKIQDFMRQKGFQDFKKLESFYIQKVLDIATINKGSIVWQ
 EVFDDKAKLAPGTIVEVWKDSAYPEELSRVTASGFPVILSAPWYLDLISYGQDWRKY
 YKVEPLDFGGTQKQKQLFIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKD
 VRDMDDAYDRLTRHRCRMVERGIAAQPLYAGYCNHENM

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

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

Storage Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

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

GENE INFORMATION

Gene Name [HEXB hexosaminidase B \(beta polypeptide\) \[Homo sapiens \]](#)

Official Symbol [HEXB](#)

Synonyms HEXB; hexosaminidase B (beta polypeptide); beta-hexosaminidase subunit beta; HCC-7; hexosaminidase subunit B; beta-N-acetylhexosaminidase subunit beta; cervical cancer proto-oncogene 7 protein; N-acetyl-beta-glucosaminidase subunit beta; ENC-1AS;

Gene ID [3074](#)

mRNA Refseq [NM_000521](#)

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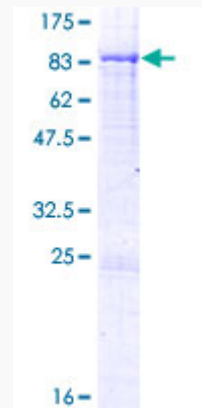
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_000512

MIM 606873

UniProt ID P07686

Quality Control
Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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