Recombinant Human HEXB

Cat. No. HEXB-27728TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HEXB with N-terminal proprietary tag. Predicted MW 87.23kDa.
Species	Human
Source	Wheat Germ
ProteinLength	556 amino acids
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 th e ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines.B eta-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 t o an accumulation of GM2 ganglioside in neurons and neurodegenerative disorders t ermed the GM2 gangliosidoses.Beta subunit gene mutations lead to Sandhoff diseas e (GM2-gangliosidosis type II).
Molecular Weight	87.230kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVA EAARAPSVSAKPGPAL WPLPLSVKMTPNLLHLAPENFY ISHSPNSTAGPSCTLLEEAFRRYHGYIFGFYKWHH EPAEF QAKTQVQQLLVSITLQSECDAFPNISSDESYTLLVKEP VAVLKANRVWGAL RGLETFSQLVYQDSYGTFTINESTIID SPRFSHRGILIDTSRHYLPVKIILKTLDAMAFN KFNVL HWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMV IEYARLRGIRVL PEFDTPGHTLSWGKGQKDLLTPCYSR QNKLDSFGPINPTLNTTYSFLTTFFKEISEV FPDQFIHLGGDEVEFKCWESNPKIQDFMRQKGFGTDFKKLESFYIQK VLDIIATINKG SIVWQEVFDDKAKLAPGTIVEVWKDSA YPEELSRVTASGFPVILSAPWYLDLISYGQ DWRKYYKVEP LDFGGTQKQKQLFIGGEACLWGEYVDATNLTPRLWPRA SAVGER LWSSKDVRDMDDAYDRLTRHRCRMVERGIAAQPL YAGYCNHENM
Sequence Similarities	Belongs to the glycosyl hydrolase 20 family.

GENE INFORMATION

Gene Name	HEXB hexosaminidase B (beta polypeptide) [Homo sapiens]
Official Symbol	HEXB
Synonyms	HEXB; hexosaminidase B (beta polypeptide); beta-hexosaminidase subunit beta;
Gene ID	3074
mRNA Refseq	NM_000521

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Protein Refseq	NP_000512
MIM	606873
Uniprot ID	P07686
Chromosome Location	5q13.3
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem;
Function	beta-N-acetylglucosaminidase activity; beta-N-acetylhexosaminidase activity; catalytic activity; cation binding; protein heterodimerization activity;

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