

Recombinant Full Length Human HEXB Protein, C-Flag-tagged

Cat. No. HEXB-1983HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HEXB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	62.9 kDa
AA Sequence	MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALW PLPLSVKMTPNLL HLA PENFYISHSPNSTAGP SCTLLEEAFRRYHGYIFGFYKWHHE PAEFQAKTQVQQLLV SITLQSECDAF PNISSDESYTLVKEPVAVLKANRVWGALRG

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LETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTS RHYLPVKIILKTLDAMAFNKF
 NVLHWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMVIEYARL RGIRVLPE
 FDTPGHTLSWGKGQKDLLTPCYSRQNKLDSEFGPINPTLNTTYSFLTTFKEISEVFPD
 QFIH LGGDEVEFKCWESNPKIQDFMRQKGFGTDFKKLESFYIQKVLDIATINKGSIV
 WQEVFDDKAKLAPGTI VEVWKDSAYPEELSRVTASGFPVILSAPWYLDLISYGQDW
 RKYKVEPLDFGGTQKQKQLFIGGEACLWG EYVDATNLTPRLWPRASAVGERLWS
 SKDVRDMDDAYDRLTRHRCRMVERGIAAQPLYAGYCNHENM TRTRPLEQKLISEE
 DLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Glycosaminoglycan degradation, Glycosphingolipid biosynthesis - ganglio series, Glycosphingolipid biosynthesis - globo series, Lysosome, Metabolic pathways, Other glycan degradation
Full Length	Full L.

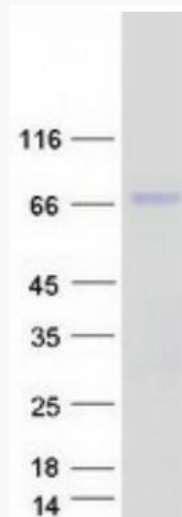
GENE INFORMATION

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Gene Name	HEXB hexosaminidase subunit beta [Homo sapiens (human)]
Official Symbol	HEXB
Synonyms	ENC-1AS, HEL-248, HEL-S-111
Gene ID	3074
mRNA Refseq	NM_000521.4
Protein Refseq	NP_000512.2
MIM	606873
UniProt ID	P07686



Coomassie blue staining of purified HEXB protein.

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