

Product datasheet for **TP300465L**

HEXB (NM_000521) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human hexosaminidase B (beta polypeptide) (HEXB), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC200465 protein sequence
Red=Cloning site **Green**=Tags(s)

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALWPLPLSVKMTPNLL
HLAPENFYISHSPNSTAGPSCITLLEAFRRYHGYIFGFYKWHHEPAEFQAKTQVQQLLVSITLQSEDAF
PNISSDESYTLLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTS
RHYLPVKIILKTLDAFNAFNVLHWHIVDDQSFYQTSITPELSNKGYSLSHVYTPNDVRMVEYARL
RGIRVLPEDTPGHTLSWGKGQKDLLTPCYSRQNKLDSEFGPINPTLNTTYSFLTTFKEISEVFPDQFIH
LGGDEVEFKCWESNPKIQDFMRQKGFDTDFKKLESFYIQKVLDIATINKGSIVWQEVFDDKAKLAPGTI
VEVWKDSAYPEELSRVTASGFPVLSAPWYLDLISYGQDWRKYKVEPLDFGGTQKQKQLFIGGEACLWG
EYVDATNLTPRLWPRASAVGERLWSSKDVRDMDDAYDRLTRHRCRMVERGIAAQPLYAGYCNHENM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 62.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_000512](#)

Locus ID: 3074

UniProt ID: [P07686](#)

RefSeq Size: 1919

Cytogenetics: 5q13.3

RefSeq ORF: 1668

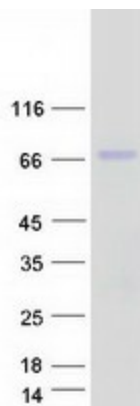
Synonyms: ENC-1AS; HEL-248; HEL-S-111

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). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2014]

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

Product images:



Coomassie blue staining of purified HEXB protein (Cat# [TP300465]). The protein was produced from HEK293T cells transfected with HEXB cDNA clone (Cat# [RC200465]) using MegaTran 2.0 (Cat# [TT210002]).