

Recombinant Full Length Human HEXB Protein

Cat. No. HEXB-228HF **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	In Vitro Cell Free System
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 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).
Form	Liquid
Molecular Mass	87.230kDa inclusive of tags
AA Sequence	MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVA EAARAPSVSAKPGPAL WPLPLSVKMTPNLLHLAPENFY ISHSPNSTAGPSTLLLEAFRRYHGYIFGFYKWHH

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EPAEF QAKTQVQQLLSITLQSECDAFPNISSDESYTLLVKEP VAVLKANRVWGAL
 RGLETFSQLVYQDSYGTFTINESTIID SPRFSHRGILIDTSRHYLPVKIILKTL DAMAFN
 KFNVL HWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMV IEYARLRGIRVL
 PEFDTPGHTLSWGKGQKDLLTPCYSR QNKLDSFGPINPTLNTTYSFLTTFKEISEV
 FPDQFIHLGGDEVEFKCWESNPKIQDFMRQKGFGTDFKKLESFYIQK VLDIATINKG
 SIVWQEVFDDKAKLAPGTIVEVWKDSA YPEELSRVTASGFPVILSAPWYLDLISYGQ
 DWRKYYKVEP LDFGGTQKQKQLFIGGEACLWGEYVDATNLTPRLWPRA SAVGER
 LWSSKDVRDMDDAYDRLTRHRCRMVERGIAAQPL YAGYCNHENM

Purity Proprietary Purification

Storage Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.

Storage Buffer pH: 8.00. Constituents: 0.79% Tris HCl, 0.31% Glutathione.

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](#)

Protein Refseq [NP_000512](#)

MIM [606873](#)

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UniProt ID

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