Recombinant Human HEXB protein, His-tagged

Cat. No. HEXB-644H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HEXB aa. (Lys315~Tyr456 (Accession # P07686)) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys315~Tyr456
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.8kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

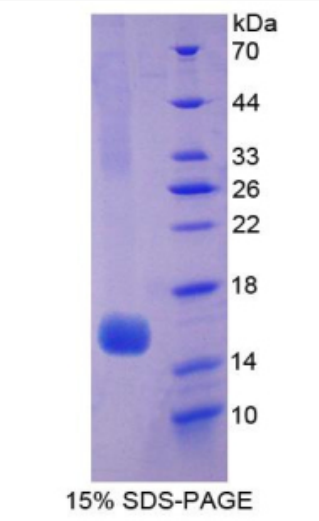
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Purity	>95%
Characteristic	The isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	HEXB hexosaminidase subunit beta [Homo sapiens (human)]
Official Symbol	HEXB
Synonyms	HEXB; hexosaminidase subunit beta; ENC-1AS; HEL-248; HEL-S-111; beta-hexosaminidase subunit beta; HCC-7; N-acetyl-beta-glucosaminidase subunit beta; beta-N-acetylhexosaminidase subunit beta; beta-hexosaminidase beta-subunit; cervical cancer proto-oncogene 7 protein; epididymis luminal protein 248; epididymis secretory protein Li 111; hexosaminidase B (beta polypeptide); hexosaminidase subunit B

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Gene ID	3074
mRNA Refseq	NM_000521.3
Protein Refseq	NP_000512.1
UniProt ID	P07686
SDS-PAGE	

15% SDS-PAGE

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