

Recombinant Full Length Human HEXA Protein, GST-tagged

Cat. No. HEXA-3523HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human HEXA full-length ORF (AAH18927, 1 a.a. - 529 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	529 amino acids
Description	This gene encodes the alpha 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. Alpha subunit gene mutations lead to Tay-Sachs disease (GM2-gangliosidosis type I). [provided by RefSeq]
Molecular Mass	83.93 kDa
AA Sequence	MTSSRLWFSLLLAAAFAGRATALWPWPQNFQTSQDRYVLYPNNFQFQYDVSSAAQ PGCSVLDEAFQRYRDLLFGSGSWPRPYLTGKRHTLEKNVLVSVVTPGCNQLPTLE SVENYTLTINDDQCLLLSETVWGALRGLTFSQLVWKS AEGTFFINKTEIEDFPRFPH RGLLLDTSRHYLPLSSILDVLMAYNKLNVFHWHLVDDPSFPYESFTFPELMRKGS

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YNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTLSWGP GIPGLLTPCYSGSEPS
 GTFGPVNP SLNNTYEFMSTFFLEVSSVFPDFYLHLGGDEVDFTCWKS NPEIQDFMR
 KKGFGEDFKQLESFYIQTL LDIVSSYGKGYVWWQEVFDNKVKIQPDTIIQVWREDIPV
 NYMKELELVTKAGFRALLSAPWYLN RISYGPDWKDFYVVEPLAFEGTPEQKALVIGG
 EACMWGEYVDNTNLV PRLWPRAGAVAERLWSNKLTSDLTFAYERLSHFRCCELLRR
 GVQAQPLNVGFCEQEFEQT

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	HEXA hexosaminidase A (alpha polypeptide) [Homo sapiens]
Official Symbol	HEXA
Synonyms	HEXA; hexosaminidase A (alpha polypeptide); beta-hexosaminidase subunit alpha; GM2 gangliosidosis; Tay Sachs disease; hexosaminidase subunit A; beta-N-acetylhexosaminidase subunit alpha; N-acetyl-beta-glucosaminidase subunit alpha; TSD; MGC99608;
Gene ID	3073



mRNA Refseq	NM_000520
Protein Refseq	NP_000511
MIM	606869
UniProt ID	P06865

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