

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	MTSSRLWFSLLLAAAFAGRATALWPWPQNFQTSDQRYVLYPNNFQFQYDVSSAAQ PGCSVLDEAFQRYRDLLFGSGSWPRPYLTGKRHTLEKNVLVSVVTPGCNQLPTLE SVENYTLTINDDQCLLLSETVWGALRGLETFSQLVWKSAGETFFINKTEIEDFPRFPH RGLLLDTSRHYLPLSSILDTLDVMAYNKLNVFHWHLVDDPSFPYESFTFPELMRKGS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTLSWGP GIPGLLTPCYSGSEPS
 GTFGPVNPSLNNTYEFMSTFFLEVSSVFPDFYLHLGGDEVDFTCWKS NPEIQDFMR
 KKGFGEDFKQLESFYIQTLLDIVSSYGKGYVWWQEVFDNKVKIQPDTIIQVWREDIPV
 NYMKELELVTKAGFRALLSAPWYLNRI SYGPDWKDFYVVEPLAFEGTPEQKALVIGG
 EACMWGEYVDNTNLVPRLWPRAGAVAERLWSNKLTSDLTFAYERLSHFRCELLRR
 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

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mRNA Refseq	NM_000520
Protein Refseq	NP_000511
MIM	606869
UniProt ID	P06865

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