Recombinant Full Length Human HEXA Protein

Cat. No. HEXA-227HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HEXA with a N terminal proprietary tag; Predicted MWt 89.93 kDa including the tag.
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).
Form	Liquid
Molecular Mass	83.930kDa inclusive of tags
AA Sequence	MTSSRLWFSLLLAAAFAGRATALWPWPQNFQTSDQRYVLY PNNFQFQYDVSSAA QPGCSVLDEAFQRYRDLLFGSGSWPR PYLTGKRHTLEKNVLVVSVVTPGCNQLPT

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	LESVENYTLTI NDDQCLLLSETVWGALRGLETFSQLVWKSAEGTFFINKTE IEDFPR FPHRGLLLDTSRHYLPLSSILDTLDVMAYNKLNV FHWHLVDDPSFPYESFTFPELMR KGSYNPVTHIYTAQDVK EVIEYARLRGIRVLAEFDTPGHTLSWGPGIPGLLTPCYSG SEPSGTFGPVNPSLNNTYEFMSTFFLEVSSVFPDFYLHLG GDEVDFTCWKSNPEIQ DFMRKKGFGEDFKQLESFYIQTLL DIVSSYGKGYVVWQEVFDNKVKIQPDTIIQVWR EDIPVNY MKELELVTKAGFRALLSAPWYLNRISYGPDWKDFYVVEPL AFEGTPEQK ALVIGGEACMWGEYVDNTNLVPRLWPRAGAV AERLWSNKLTSDLTFAYERLSHFR CELLRRGVQAQPLNVG FCEQEFEQT
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	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
Gene ID	3073
mRNA Refseq	NM_000520
Protein Refseq	NP_000511

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MIM	606869
UniProt ID	P06865

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