

Recombinant Human HEXA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HEXA-6676H Lot. No. (See product label)

SPECIFICATION

Product Overview	HEXA MS Standard C13 and N15-labeled recombinant protein (NP_000511) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the glycosyl hydrolase 20 family of proteins. The encoded preproprotein is proteolytically processed to generate the alpha subunit of the lysosomal enzyme beta-hexosaminidase. This enzyme, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene lead to an accumulation of GM2 ganglioside in neurons, the underlying cause of neurodegenerative disorders termed the GM2 gangliosidoses, including Tay-Sachs disease (GM2-gangliosidosis type I). Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Molecular Mass	60.7 kDa
AA Sequence	MTSSRLWFSLLLAAAFAGRATALWPWPQNFQTSDQRYVLYPNNFQFQYDVSSAAQ PGCSVLDEAFQRYRDLLFGSGSWPRPYLTGKRHTLEKNVLVSVVTPGCNQLPTLE SVENYTLTINDDQCLLLSETVWGALRGLETFSQLVWKS AEGTFFINKTEIEDFPRFPH

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RGLLLDTSRHYLPLSSILDTLDVMAYNKLNVFHWHLVDDPSFPYESFTTFPELMRKGS
 YNPVTHIYTAQDVKEVIEYARLRGIRVLAEFDTPGHTLSWGPPIPGLLTPCYSGSEPS
 GTFGPVNPSLNNTYEFMSTFFLEVSSVFPDFYLHLGGDEVDFTCWKSNIQDFMR
 KKGFGEDFKQLESFYIQTLLDIVSSYGKGYVWQEVFDNKVKIQPDTIIQVWREDIPV
 NYMKELELVTKAGFRALLSAPWYLNRIISYGPDWKDFYVVEPLAFEGTPEQKALVIGG
 EACMWGEYVDNTNLVPRLWPRAGAVAERLWSNKLTSDLTFAYERLSHFRCELLRR
 GVQAQPLNVGFCEQEFEQTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [HEXA hexosaminidase subunit alpha \[Homo sapiens \(human\) \]](#)

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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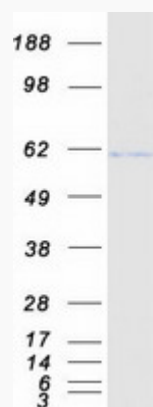
mRNA Refseq [NM_000520](#)

Protein Refseq [NP_000511](#)

MIM [606869](#)

UniProt ID [P06865](#)

SDS-PAGE



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