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**Product Data Sheet**


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Product Name: HEXA Human, Sf9

Cat. No.: GP21789

Batch No.: 1

**Product Data**

Purity &gt;98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms Hexosaminidase A (Alpha Polypeptide); N-Acetyl-Beta-Glucosaminidase Subunit Alpha; Beta-N-Acetylhexosaminidase Subunit Alpha; Hexosaminidase Subunit A; EC 3.2.1.52; TSD; Beta-Hexosaminidase Subunit Alpha; GM2 Gangliosidosis; Tay Sachs Disease; EC 3.2.1; Beta-hexosaminidase subunit alpha; Beta-N-acetylhexosaminidase subunit alpha; Hexosaminidase subunit A; N-acetyl-beta-glucosaminidase subunit alpha.

Amino Acid Sequence  
 LWPWPQNFQTS DQRYVLYPN NFQFQYDVSS AAQPGCSVLD EAFQRYRDLL  
 FGSGSWPRPY LTGKRHTLEK NVLVVSVVTPGCNQLPTLES VENYTLTIND  
 DQCLLLSETV WGALRGLET F SQLVWKS AEG TFFINKTEIE  
 DFRPRPHRGLLLDTSRHLYP LSSILDTLDV MAYNKLNVFH WHLVDDPSFP  
 YESFTFPELM RKGSYNPVTH IYTAQDVKEVIEYARLRGIR VLAEFDTPGH  
 TLSWGP GIPG LLTPCYSGSE PSGTFGPVNP SLNNTYEFMS  
 TFFLEVSSVFPDFYLHLGGD EVDFTCWKSN PEIQDFMRKK GFGEDFKQLE  
 SFYIQTL LDI VSSYGKGYVV WQEVFDNKVKIQPDTIIQVW REDIPVNYMK  
 ELELVTKAGF RALLSAPWYL NRISYGPDWK DFYIVEPLAF  
 EGTPEQKALVIGGEACMWGE YVDNTNLVPR LWPRAGAVAE RLWSNKL TSD  
 LTFAYERLSH FRCELLRRGV QAQPLNVGFCEQEFEQTHHH HHH.

Formulation HEXA protein solution (0.5 mg/ml) contains phosphate buffered saline (pH 7.4).

**Introduction**

HEXA is the alpha subunit of the lysosomal enzyme beta-hexosaminidase which, combined with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules having N-acetyl hexosamines terminus. The two

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subunits composing Beta-hexosaminidase, alpha and beta, belong to the glycosyl hydrolases family and are encoded by distinct genes. Alpha subunit gene mutations can cause Tay-Sachs disease (GM2-gangliosidosis type I).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

HEXA produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 513 amino acids (23-529a.a.) and having a molecular mass of 59.2kDa. (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).

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