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**Product Data Sheet**


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Product Name: HEXA Human  
 Cat. No.: GP21788  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TSD; hexosaminidase A; Beta-hexosaminidase subunit alpha; Beta-N-acetylhexosaminidase subunit alpha; Hexosaminidase subunit A; N-acetyl-beta-glucosaminidase subunit alpha.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSTLEKNVL VSVVTPGCN QLPTLESVEN YTLTINDDQC LLLSETVWGALRGLETFSQL VWKSAEGTFF INKTEIEDFP RFPHRGLLLD TSRHYLPLSS ILDTLDVMAY NKLNVFHWHLVDDPSFPYES FTFPELMRKG SYNPVTHIYT AQDVKEVIEY ARLRGIRVLA EFDTPGHTLS WPGGIPGLLT PCYSGSEPSG TFGPVNPSLNNTYEFMSTFF LEVSSVFPDF YLHLGGDEVD FTCWKSNEI QDFMRKKGFG EDFKQLESFY IQTLLDIVSSYGKGYVWQE VFDNKVKIQP DTIIQVWRED IPVNYMKELE LVTKAGFRAL LSAPWYLNRI SYGPDWKDFY VVEPLAFEGT PEQKALVIGG EACMWGEYVD NTNLPRLWPRAGAVAERLW SNKLTSDLTF AYERLSHFRC ELLRRGVQAQ PLNVGFCEQE FEQT.		
Formulation	HEXA protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

**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 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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 464 amino acids (89-529 a.a) and having a molecular mass of 52.9 kDa. HEXA is fused to a 23 amino acid His-tag at N-terminus.

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