

## 32-6802: HEXA Human, Sf9

**Alternative Name :** 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.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

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).

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).

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Greater than 90% as determined by SDS-PAGE.

**Content :** HEXA protein solution (0. 5mg/ml) contains phosphate buffered saline (pH7.4).

**Storage condition :** 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.

**Amino Acid :** LWPWPQNFQT SDQRYVLYPN NFQFQYDVSS AAQPGCSVLD EAFQRYRDLL FGSGSWPRPY LTGKRHTLEK NVLVSVVTP GCNQLPTLES VENYTLTIND DQCLLSETV WGALRGLETF SQLVWKSAEG TFFINKTEIE DFPRFPHRGL LLDTSRHYLP LSSILDLDV MAYNKNVFH WHLVDDPSFP YESFTFPELM RKGSYNPVTH IYTAQDVKEV IEYARLRGIR VLAEDTPGH TLSWGPPIPGLLTPCYSGSE PSGTFGPVNP SLNNTYEFMS TFFLEVSSVF PDFYLHLGGD EVDFTCWKSNEIPEIQDFMRKK GFGEDFKQLE SFYIQTLLDI VSSYGKGYVV WQEVDNDNKVK IQPDTIIQVW REDIPVNYSMK ELELVTKAGF RALLSAPWYL NRISYGPDWK DFYIVEPLAF EGTPEQKALV IGGEACMWGE YVDNTNLVPR LWPRAGAVAE RLWSNKLTSDFTFAYERLSH FRCELLRRGV QAQPLNVGFC EQEFEQTHHH HHH.