

## 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 NVLVVSVVTP GCNQLPTLES VENYTLTIND DQCLLLSETV WGALRGLET F SQLVWKS AEG TFFINKTEIE DFPRFPHRGL LLDTSRHYLP LSSILD TLDV MAYNKLNVFH WHLVDDPSFP YESFTFPELM RKGSYNPVTH IYTAQDVKEV IEYARLRGIR VLA EFDTPGH T LSWGPGIPG LLTPCYS GSE PSGTFGPVNP SLNNTYEFMS TFFLEVSSVF PDFYLHLGGD EVDFTCWKSN PEIQDFMRKK GFGEDFKQLE SFYIQTLLDI VSSYGKGYVV WQEVFDNKVK IQPDTIIQVW REDIPVNYMK ELELVTKAGF RALLSAPWYL NRISYGPDWK DFYIVEPLAF EGTPEQKALV IGGEACMWGE YVDNTNLVPR LWPRAGAVAE RLWSNKL TSD LTFAYERLSH FRCELLRRGV QAQPLNVGFC EQEFEQTHHH HHH.