

32-2438: HEXA Recombinant Protein

Alternative Name : TSD,hexosaminidase A,Beta-hexosaminidase subunit alpha, Beta-N-acetylhexosaminidase subunit alpha,Hexosaminidase subunit A,N-acetyl-beta-glucosaminidase subunit alpha.

Description

Source : Escherichia Coli. 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. 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).

Product Info

Amount : 20 µg
Purification : Greater than 85.0% as determined by SDS-PAGE.
Content : HEXA protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.
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 : MGSSHHHHHH SSGLVPRGSH MGSTLEKNVL VSVVTPGCN QLPTLESVEN YTLTINDDQC
LLLSETVWGALRGLETFSQL VWKSAEGTFF INKTEIEDFP RFPHRGLLLD TSRHYLPLSS ILDTLDVMAY
NKLNVFHWHLVDDPSFPYES FTFPELMRKG SYNPVTHIYT AQDVKEVIEY ARLRGIRVLA EFDTPGHTLS
WGP GIPGLLT PCYSGSEPSG TFGPVNPSLNNTYEFMSTFF LEVSSVFPDF YLHLGGDEVD FTCWKS NPEI
QDFMRKKGF G ED FKQLESFY IQTLLDIVSSYGKGYVWQE VFDNKVKIQP DTIIQWRED IPVNYMKELE
LVTKAGFRAL LSAPWYLNRI SYGPDWKDFY VVEPLAFEGT PEQKALVIGG EACMWGEYVD
NTNLVPRLWPRAGAVAERLW SNKLTSDLTF AYERLSHFRC ELLRRGVQAQ PLNVGFCEQE FEQT.