

HEXA, 89-529aa Human, His tag, E.coli

Cat.NO.: TP02439

3th Edition

Synonyms:beta-hexosaminidase subunit alpha, TSD, hexosaminidase A

Description:HEXA is the alpha subunit of the lysosomal enzyme beta-hexosaminidase that, together with the cofactor GM2 activator protein, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Beta-hexosaminidase is composed of two subunits, alpha and beta, which are encoded by separate genes. Both beta-hexosaminidase alpha and beta subunits are members of family 20 of glycosyl hydrolases. Alpha subunit gene mutations lead to Tay-Sachs disease (GM2-gangliosidosis type I). Recombinant human HEXA protein, fused to His-tag at N-terminus, was expressed in E.coli.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

Molecular Weight:52.9 kDa (464aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSTLEKNVLVSVVTPGCNQLPTLESVENYTLTINDDQCLLLSETVWGALRGLE
TFSQLVWKS AEGTFFINKTEIEDFPRFPHRGLLLDTSRHYLPLSSILDTLDMAYNKLNVFHWHLVDDPSFPYESFTF
PELMRKGSYNPVTHIYTAQDVKEVIEYARLRGIRVLA EFDTPGHTLSWGP GIPGLLTPCYSGSEPSGTFGPVNPSLN
NTYEFMSTFFLEVSSVFPDFYLHLGGDEVDFTCWKSNPEIQDFMRKKGFGEDFKQLESFYIQTL LLDIVSSYGKGYVV
WQEVFDNKVKIQPDTIIQVWREDIPVNYMKELELVTKAGFRALLSAPWYLN RISYGPDWKDFYVVEPLAFEGTPEQK
ALVIGGEACMWGEYVDNTNLVPRLWPRAGAVAERLWSNKLTSDLTFAYERLSHFRCCELLRRGVQAQPLNVGFCE
QEFEQT

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.