

Recombinant human Hexosaminidase A/HEXA protein

Catalog Number: ATGP3113

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-529aa

UniProt No.

P06865

NCBI Accession No.

NP_000511

Alternative Names

Beta-hexosaminidase subunit alpha preproprotein, TSD

PRODUCT SPECIFICATION

Molecular Weight

59.2 kDa (513aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

HEXA, also known as beta-hexosaminidase subunit alpha preproprotein, is an enzyme, located on the 15th chromosome. Hexosaminidase A and the cofactor GM2 activator protein catalyze the degradation of the GM2 gangliosides and other molecules containing terminal N-acetyl hexosamines. Hexosaminidase A is a heterodimer composed of an alpha subunit and a beta subunit. Recombinant human HEXA, fused to His-tag at C-terminus,

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was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

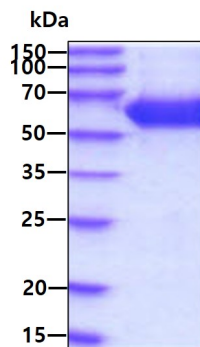
LWPWPQNFQT SDQRYVLYPN NFQFQYDVSS AAQPGCSVLD EAFQRYRDLL FGSGSWPRPY LTGKRHTLEK NVLVVSVVTP
GCNQLPTLES VENYTLTIND DQCLLLSETV WGALRGLET F SQLVWKS AEG TFFINKTEIE DFPRFPHRGL LLDTSRHYLP
LSSILD TLDV MAYNKLNVFH WHLVDDPSFP YESFTPELM RKGSYNPVTH IYTAQDVKEV IEYARLRGIR VLA EFDTPGH
TLSWGPGIPG LLTPCYSGSE PSGTFGPVNP SLNNTYEFMS TFFLEVSSVF PDFYLHLGGD EVDFTCWKSN PEIQDFMRKK
GFGEDFKLE SFYIQTLDDI VSSYGKGYVV WQEVFDNKVK IQPDTIIQVW REDIPVNYMK ELELVTKAGF RALLSAPWYL
NRISYGPDWK DFYIVEPLAF EGTPEQKALV IGGEACMWGE YVDNTNLVPR LWPRAGAVAE RLWSNKL TSD LTFAYERLSH
FRCELLRRGV QAQPLNVGFC EQEFEQT<HHH HHH>

General References

- Proia RL. et al. (1987) J. Biol. Chem. 262(12):5677-81.
- Mark BL. et al. (2003) J Mol Biol. 327(5):1093-109.
- Knapp S. et al. (1996) J. Am. Chem. Soc. 118(28):6804-6805.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain