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## 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**

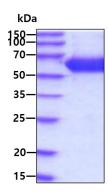
LWPWPQNFQT SDQRYVLYPN NFQFQYDVSS AAQPGCSVLD EAFQRYRDLL FGSGSWPRPY LTGKRHTLEK NVLVVSVVTP GCNQLPTLES VENYTLTIND DQCLLLSETV WGALRGLETF SQLVWKSAEG TFFINKTEIE DFPRFPHRGL LLDTSRHYLP LSSILDTLDV MAYNKLNVFH WHLVDDPSFP YESFTFPELM RKGSYNPVTH IYTAQDVKEV IEYARLRGIR VLAEFDTPGH TLSWGPGIPG LLTPCYSGSE PSGTFGPVNP SLNNTYEFMS TFFLEVSSVF PDFYLHLGGD EVDFTCWKSN PEIQDFMRKK GFGEDFKQLE SFYIQTLLDI VSSYGKGYVV WQEVFDNKVK IQPDTIIQVW REDIPVNYMK ELELVTKAGF RALLSAPWYL NRISYGPDWK DFYIVEPLAF EGTPEQKALV IGGEACMWGE YVDNTNLVPR LWPRAGAVAE RLWSNKLTSD 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

