

## Recombinant Human HEXA, His-tagged

Cat. No. HEXA-7241H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human HEXA protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	<p>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).</p>
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
<b>molecular mass</b>	52.9 kDa (464aa)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**aa sequence**

MGSSHHHHH SSGLVPRGSH MGSTLEKNVL VVSVVTPGCN QLPTLESVEN  
 YTLTINDDQC LLLSETVWGA LRGLETFSQL VWKSAEGTFFINKTEIEDFP  
 RFPHRGLLLD TSRHYLPLSS ILDTLDVMAY NKLNVFHWHL VDDPSFPYES  
 FTFPELMRKG SYNPVTHIYT AQDVKEVIEY ARLRGIRVLA EFDTPGHTLS  
 WGP GIPGLLT PCYSGSEPSG TFGPVNPSLN NTYEFMSTFF LEVSSVFPDF  
 YLHLGGDEVD FTCWKSNIQDFMRKKGFG EDFKQLESFY IQTLLDIVSS  
 YGKGYVVWQE VFDNKVKIQP DTIIQVWRED IPVNYMKELE LVTKAGFRAL  
 LSAPWYLNRI SYGPDWKDFY VVEPLAFEGT PEQKALVIGG EACMWGEYVD  
 NTNLPRLWP RAGAVAERLW SNKLTSDLTF AYERLSHFRC  
 ELLRRGVQAQPLNVGFCEQE FEQT

**purity** >85% by SDS - PAGE

**applications** SDS-PAGE

**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.

**concentration** 1 mg/ml

## GENE INFORMATION

**gene name** [HEXA hexosaminidase A \(alpha polypeptide\) \[ Homo sapiens \]](#)

**official symbol** HEXA

**synonyms** HEXA; hexosaminidase A (alpha polypeptide); beta-hexosaminidase subunit alpha; GM2 gangliosidosis; Tay Sachs disease; hexosaminidase subunit A; beta-N-acetylhexosaminidase subunit alpha; N-acetyl-beta-glucosaminidase subunit alpha; TSD; MGC99608;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Gene ID</b>	3073
<b>mrna refseq</b>	NM_000520
<b>protein refseq</b>	NP_000511
<b>mim</b>	606869
<b>uniprot id</b>	P06865
<b>chromosome location</b>	15q24.1
<b>pathway</b>	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Glycosphingolipid biosynthesis - ganglio series, organism-specific biosystem; Glycosphingolipid biosynthesis - ganglio series, conserved biosystem; Glycosphingolipid biosynthesis - globo series, organism-specific biosystem;
<b>function</b>	beta-N-acetylhexosaminidase activity; cation binding; hydrolase activity, hydrolyzing O-glycosyl compounds; protein heterodimerization activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA