

Recombinant Human HEXA, His-tagged

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

SPECIFICATION

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

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aa sequence	MGSSHHHHH SSGLVPRGSH MGSTLEKNVL VVSVTPGCN QLPTLESVEN YTLTINDDQC LLLSETVWGA LRGETFSQL VWKSAEGTFFINKTEIEDFP RFPHRGLLLD TSRHYLPLSS ILDTLDVMAY NKLNVFHWHL VDDPSFPYES FTFPELMRKG SYNPTVTHIYT AQDVKEVIEY ARLRGIRVLA EFDTPGHTLS WGP GIPGLLT PCYSGSEPSG TFGPVNPSLN NTYEFMSTFF LEVSSVFPDF YLHLGGDEVD FTCWKS NPEIQDFMRKKGFG EDFKQLESFY IQTLDDIVSS YGKGYVWQE 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;

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Gene ID	3073
mrna refseq	NM_000520
protein refseq	NP_000511
mim	606869
uniprot id	P06865
chromosome location	15q24.1
pathway	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;
function	beta-N-acetylhexosaminidase activity; cation binding; hydrolase activity, hydrolyzing O-glycosyl compounds; protein heterodimerization activity;

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