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Datasheet for ABIN7317429

Hexosaminidase A Protein (HEXA) (His tag)

Overview

Quantity:	50 µg
Target:	Hexosaminidase A (HEXA)
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Hexosaminidase A protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HEXA Protein (Subunit A, His Tag)(Active)
Sequence:	Met 1-Thr 529
Characteristics:	A DNA sequence encoding the human HEXA (AAD13932.1) (Met 1-Thr 529) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to hydrolyze 4-methylumbelliferyl-N-acetyl-β-D-glucosaminide (4-MU-Glc-NAc). The specific activity is >1,250 pmoles/min/µg.

Target Details

Target:	Hexosaminidase A (HEXA)
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Target Details

Alternative Name: [HEXA \(HEXA Products\)](#)

Background: Background: Wilms' tumor 1-associating protein (WTAP) was previously identified as a protein associated with Wilms' tumor-1 (WT-1) protein that is essential for the development of the genitourinary system. WT1 was originally identified as a tumor suppressor for Wilms' tumor, but it is also overexpressed in a variety of cancer cells. The WTAP-WT1 axis in vascular cells suggest that WTAP is a vital and multifaceted regulator of vascular remodeling. WTAP has been suggested to function in alternative splicing, stabilization of mRNA, and cell growth. Knocking down endogenous WTAP increased Smooth muscle cells (SMCs) proliferation, because of increased DNA synthesis and G(1)/S phase transition, together with reduced apoptosis. These effects could be the result of WTAP suppressing the transcriptional activity of WT1 in SMCs. WTAP may thus also play a role in messenger RNA processing in mammalian cells, either dependent on or independent of its interaction with WT1.

Synonym: TSD

Molecular Weight: 59.7 kDa

Pathways: [Sensory Perception of Sound](#), [Glycosaminoglycan Metabolic Process](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.