Datasheet for ABIN7320226

CHST3 Protein (His tag)

1 Image

Go to Product page

Overview

Quantity:	50 µg
Target:	CHST3
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHST3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CHST3/C6ST-1 Protein (His Tag)
Sequence:	Glu 39-Thr 472
Characteristics:	A DNA sequence encoding the extracellular domain of mouse CHST3 (NP_058083.2) (Glu 39-Thr 472) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	CHST3
Alternative Name:	CHST3/C6ST-1 (CHST3 Products)
Background:	Background: Carbohydrate sulfotransferase 3, also known as Chondroitin 6-O-sulfotransferase 1, Chondroitin 6-sulfotransferase and CHST3, is a single-pass type I I membrane protein which belongs to the sulfotransferase 1 family and Gal / GlcNAc / GalNAc subfamily. CHST3 is widely

Target Details

	expressed in adult tissues. It is expressed in heart, placenta, skeletal muscle and pancreas. CHST3 is also expressed in various immune tissues such as spleen, lymph node, thymus and appendix. CHST3 catalyzes the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. It is a chondroitin sulfate which constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. It can also sulfate Gal residues of keratan sulfate, another glycosaminoglycan, and the Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides. It may play a role in the maintenance of naive T-lymphocytes in the spleen. Defects in CHST3 are the cause of spondyloepiphyseal dysplasia Omani type (SED Omani type) which is an autosomal recessive disorder characterized by normal length at birth but severely reduced adult height (110-130 cm), severe progressive kyphoscoliosis, arthritic changes with joint dislocations, genu valgum, cubitus valgus, mild brachydactyly, camptodactyly, microdontia and normal intelligence. As a consequence of the arthropathy and the contractures, affected individuals develop restricted joint movement. Defects in CHST3 are also a cause of humerospinal dysostosis (HSD) which is characterized by bifurcation of the ends of the humerus, subluxation in the elbow joints, widened iliac bones, talipes equinovarus and coronal cleft vertebrae. Congenital, progressive heart disease, possibly with fatal outcome, is observed in some patients. Synonym: C6ST;C6ST-1;GST-0
Molecular Weight:	52 kDa
NCBI Accession:	NP_058083
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Restrictions:	For Research Use only

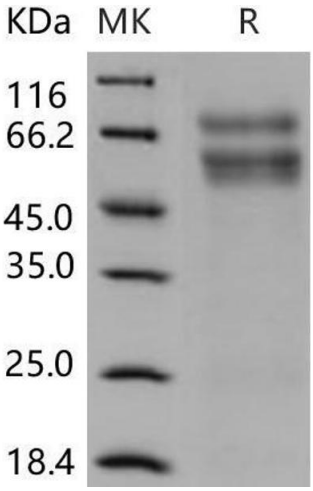
Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, 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.

Handling

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.

Images



Western Blotting

Image 1.