

CHST3 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76259
Synonyms:	Carbohydrate sulfotransferase 3; Chondroitin 6-O-sulfotransferase 1; C6ST-1; GST-0
Species:	Mouse
Source:	HEK293
Accession:	O88199 (E39-T472)
Gene ID:	53374
Molecular Weight:	55-75 kDa.

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

CHST3 protein, a sulfotransferase utilizing 3'-phospho-5'-adenylyl sulfate (PAPS) as its sulfonate donor, serves as a crucial enzyme catalyzing the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin, the predominant proteoglycan in cartilage and widely distributed on cell surfaces and extracellular matrices. While exhibiting a lower efficiency, CHST3 can also sulfonate the Gal residues of keratan sulfate, another glycosaminoglycan, and catalyze the sulfation of Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides. Beyond its glycan-modifying activities, CHST3 may play a role in maintaining naive T-lymphocytes in the spleen. The versatile sulfation capabilities of CHST3 underscore its significance in modulating the sulfation patterns of key glycosaminoglycans, contributing to the structural diversity of the extracellular matrix and potentially influencing immune cell dynamics in specific tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA