Recombinant CHSTB protein (His tag)

Catalog Number	546020
Synonyms	Chondroitin 4-O-sulfotransferase 1; Chondroitin 4-sulfotransferase 1; C4S-1; C4ST-1; C4ST1
Species	Human
Expression System	E. coli
Accession	Q9NPF2
Molecular Weight	Predictes a molecular mass of 38.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	38-352
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 38-352 aa (Q9NPF2) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Carbohydrate Sulfotransferase 11 (CHST11) Fragment (aa 38-352) is a high-purity protein designed for studying chondroitin sulfation. This 315-amino acid fragment retains catalytic activity and solubility, ideal for structural, enzymatic, and functional assays in glycosaminoglycan research. Carbohydrate Sulfotransferase 11 (CHST11), also known as Chondroitin 4-O-sulfotransferase 1, catalyzes the transfer of sulfate to the 4-position of N-acetylgalactosamine (GalNAc) in chondroitin, a key modification in proteoglycan biosynthesis. Chondroitin sulfate is the predominant proteoglycan in cartilage and is widely distributed on cell surfaces and extracellular matrices, playing critical roles in cellular signaling, matrix organization, and tissue development. The enzyme localizes to the Golgi apparatus membrane as a single-pass type II membrane protein, where it specifically sulfates GlcA->GalNAc units in chondroitin and can modify desulfated dermatan sulfate, without forming 4,6-di-O-sulfated GalNAc. This recombinant fragment enables focused investigation into sulfotransferase mechanisms and chondroitin sulfate biology.