Recombinant UST protein (His tag)

Catalog Number	546280
Synonyms	Chondroitin sulfate 2-O-sulfotransferase; CS-2OST
Species	Human
Expression System	E. coli
Accession	Q9Y2C2
Molecular Weight	Predictes a molecular mass of 36.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	71-365
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 71-365 aa (Q9Y2C2) 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 Uronyl 2-sulfotransferase (UST) Fragment (residues 71-365) is a high-purity protein designed for structural and biochemical studies. This 295-amino acid fragment retains key functional regions, offering a stable and soluble alternative for investigating glycosaminoglycan sulfation mechanisms. Uronyl 2-sulfotransferase (UST), also known as chondroitin sulfate 2-O-sulfotransferase, is a Golgi apparatus membrane enzyme that catalyzes sulfate transfer to uronyl residues in glycosaminoglycan chains. It demonstrates primary activity toward iduronyl residues in dermatan sulfate and weaker activity toward glucuronyl residues in chondroitin sulfate, with minimal activity on heparin derivatives. As a single-pass type II membrane protein, UST plays a critical role in glycosaminoglycan modification, influencing extracellular matrix composition and function.