Recombinant CHPF2 protein (His tag)

Catalog Number	546142
Synonyms	CSGlcA-T; Chondroitin glucuronyltransferase; Chondroitin polymerizing factor 2; ChPF-2; Chondroitin synthase 3; ChSy-3; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase
Species	Human
Expression System	E. coli
Accession	Q9P2E5
Molecular Weight	Predictes a molecular mass of 14.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	661-772
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 661-772 aa (Q9P2E5) 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	This product is a recombinant protein fragment of Chondroitin sulfate glucuronyltransferase (CSGlcA-T), corresponding to residues 661-772 of the human enzyme. This fragment is a stable, soluble unit ideal for structural studies and biochemical assays investigating chondroitin sulfate biosynthesis. Chondroitin sulfate glucuronyltransferase (EC 2.4.1.226) is a key enzyme in chondroitin sulfate synthesis, transferring glucuronic acid from UDP-GlcUA to N-acetylgalactosamine residues on the elongating chondroitin polymer. It functions as part of the chondroitin synthase complex but lacks N-acetylgalactosaminyltransferase activity itself. The enzyme is localized to the Golgi apparatus membrane as a single-pass type II membrane protein, where it plays a crucial role in proteoglycan biosynthesis.