

Recombinant Human CHSY1, GST-tagged

Cat. No. CHSY1-11235H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHSY1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	449-802a.a.
Description	This gene encodes a member of the chondroitin N-acetylgalactosaminyltransferase family. These enzymes possess dual glucuronyltransferase and galactosaminyltransferase activity and play critical roles in the biosynthesis of chondroitin sulfate, a glycosaminoglycan involved in many biological processes including cell proliferation and morphogenesis. Decreased expression of this gene may play a role in colorectal cancer, and mutations in this gene are a cause of temtamy preaxial brachydactyly syndrome.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CHSY1 chondroitin sulfate synthase 1 [Homo sapiens]
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Official Symbol	CHSY1
Synonyms	CHSY1; chondroitin sulfate synthase 1; carbohydrate (chondroitin) synthase 1; CSS1; KIAA0990; chondroitin synthase 1; carbohydrate synthase 1; chondroitin glucuronyltransferase 1; N-acetylgalactosaminyltransferase II; chondroitin glucuronyltransferase II; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase 1; glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase 1; CHSY; TPBS; ChSy-1; FLJ58581; DKFZp434M032;
Gene ID	22856
mRNA Refseq	NM_014918
Protein Refseq	NP_055733
MIM	608183
UniProt ID	Q86X52
Chromosome Location	15q26.3
Pathway	Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; Glycosaminoglycan biosynthesis, chondroitin sulfate backbone, organism-specific biosystem; Glycosaminoglycan biosynthesis, chondroitin sulfate backbone, conserved biosystem; Metabolic pathways, organism-specific biosystem; chondroitin and dermatan biosynthesis, organism-specific biosystem; chondroitin and dermatan biosynthesis, conserved biosystem;

Function

N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase activity; glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-beta-N-acetylgalactosaminyltransferase activity; metal ion binding; transferase activity; transferase activity, transferring he

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