
Product Data Sheet

Product Name: SDC4 Human
 Cat. No.: GP24508
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SDC-4; SYND4; SYND-4; Amphiglycan; Ryudocan core protein; Syndecan-4.		
Amino Acid Sequence	MESIRETEVI DPQDLLEGYR FSGALPDDDED VVGPGQESDD FELSGSGDLD DLED SMIGPE VVHPLVPLDN HIPERAGSGS QVPTEPKKLE ENEVIPKRIS PVEESEDVSN KVSMSSTVQG SNIFERTE.		
Formulation	Syndecan-4 (1mg/ml) protein solution containing 20mM Tris-HCl pH-8, and 10% glycerol.		

Introduction

Syndecan-4 is a type I integral membrane heparan sulfate proteoglycan (HSPG), which was originally isolated from cloned rat microvascular endothelial cells as an antithrombin-binding molecule, and is now known to be a member of the syndecan family. Syndecan-4 binds to basic fibroblast growth factor (bFGF), midkine, and tissue factor pathway inhibitor via its heparan sulfate chains, and is thought to be involved in various biologic functions such as signaling of bFGF, anticoagulation, and focal adhesion formation. A previous study demonstrated that syndecan-4 is expressed in various tissues, and its level of expression in the kidney is stronger than those of other syndecan family members. Thus, syndecan-4 is thought to play certain roles in maintaining renal function. Moreover, it has been reported that proteoglycans, especially sulfated proteoglycans, are involved in organogenesis of the kidney.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze thaw cycles.

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

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Background

SDC4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 128 amino acids (19-145a.a.) and having a molecular mass of 13.9 kDa. SDC4 is purified by proprietary chromatographic techniques.

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