
Product Data Sheet

Product Name: SOSTDC1 Human
 Cat. No.: GP24662
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Sclerostin domain-containing protein 1; Ectodermal BMP inhibitor; Ectodin; Uterine sensitization-associated gene 1 protein; USAG-1; SOSTDC1; USAG1; CDA019.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFKNDATE ILYSHVVKPV PAHPSSNSTL NQARNGGRHF SNTGLDRNTR VQVGCRELRS TKYISDGQCT SISPLKELVC AGECLPLPVL PNWIGGGYGT KYWSRRSSQE WRCVNDKTRT QRIQLQCQDG STRTYKITVV TACKCKRYTR QHNESSHNF E SMSPAKPVQH HRERKRASKS SKHSMS.		
Formulation	SOSTDC1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.		

Introduction

Sclerostin Domain Containing 1 (SOSTDC1) belongs to the sclerostin family and an N-glycosylated, secreted protein with a C-terminal cystine knot-like domain. The SOSTDC1 protein acts as a bone morphogenetic protein (BMP) antagonist. Specifically, SOSTDC1 directly associates with BMPs, prohibiting them from binding their receptors, thus regulating BMP signaling throughout cellular proliferation, differentiation, and programmed cell death. SOSTDC1 may also be involved in the onset of endometrial receptivity for implantation/sensitization for the decidual cell reaction Enhances Wnt signaling and hinders TGF-beta signaling. In addition, SOSTDC1 directly antagonizes the activity of BMP2, BMP4, BMP6 and BMP7 in a dose-dependent manner.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SOSTDC1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 206 amino acids (24-206 a.a) and having a molecular mass of 23kDa. SOSTDC1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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