9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SOSTDC1 Human

Sclerostin Domain Containing 1 Human Recombinant
RCP2198

Product Overview

Name	SOSTDC1 Human
Description	
Sclerostin Domain Containing 1 Human Recombinant	
Accession (Primary)	Q6X4U4
Synonyms	
Sclerostin domain-containing protein 1, Ectodermal BMP inhibitor, Ectodin, Uterine sensitization-associated gene 1 protein, USAG-1, SOSTDC1, USAG1, CDA019.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
SOSTDC1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M UREA and 10% glycerol.	
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). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS FKNDATE ILYSHVVKPV PAHPSSNSTL NQARNGGRHF SNTGLDRNTR	

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VQVGCRELRS TKYISDGQCT SISPLKELVC AGECLPLPVL PNWIGGGYGT KYWSRRSSQE WRCVNDKTRT QRIQLQCQDG STRTYKITVV TACKCKRYTR QHNESSHNFE SMSPAKPVQH HRERKRASKS SKHSMS.

Precautions

SOSTDC1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q6X4U4)