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Recombinant human USAG1 protein

Catalog Number: ATGP1905

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-206aa

UniProt No.

O6X4U4

NCBI Accession No.

NP 056279

Alternative Names

Sclerostin domain-containing protein 1, CDA019, ECTODIN, uSAG1

PRODUCT SPECIFICATION

Molecular Weight

23 kDa (206aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

SOSTDC1 is a member of the sclerostin family and an N-glycosylated, secreted protein with a C-terminal cystine knot-like domain. This protein functions as a bone morphogenetic protein (BMP) antagonist. Specifically, it directly associates with BMPs, prohibiting them from binding their receptors, thereby regulating BMP signaling during cellular proliferation, differentiation, and programmed cell death. Recombinant human SOSTDC1 protein, fused to His-tag at N-terminus, was expressed in E. coli.



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Amino acid Sequence

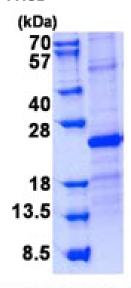
MGSSHHHHHH SSGLVPRGSH MGSFKNDATE ILYSHVVKPV PAHPSSNSTL NQARNGGRHF SNTGLDRNTR VQVGCRELRS TKYISDGQCT SISPLKELVC AGECLPLPVL PNWIGGGYGT KYWSRRSSQE WRCVNDKTRT QRIQLQCQDG STRTYKITVV TACKCKRYTR QHNESSHNFE SMSPAKPVQH HRERKRASKS SKHSMS

General References

Yanagita M, Oka M, et al. (2004). Biochem Biophys Res Commun. 316(2):490-500. Goto M, et al. (2004). J Biol Chem. 279(40):42128-38.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.