

# Recombinant human USAG1 protein

Catalog Number: ATGP1905

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-206aa

### UniProt No.

Q6X4U4

### NCBI Accession No.

NP\_056279

### Alternative Names

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

## PRODUCT SPECIFICATION

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### 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

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### 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 MGSFKNDAT ILYSHVVKPV PAHPSSNSTL NQARNGGRHF SNTGLDRNTR VQVGCRELRS  
TKYISDGQCT SISPLKELVC AGECLPLPVL PNWIGGGYGT KYWSRRSSQE WRCVNDKTRT QRIQLQCQDG STRTYKITVV  
TACKCKRYTR QHNESSHNFE SMSPAKPVQH HRERKRASKS SKHSMS

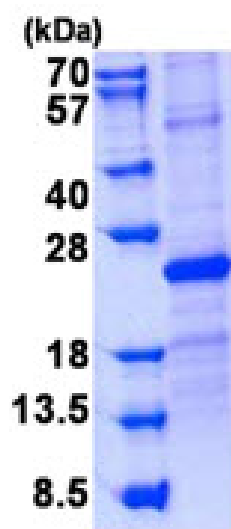
### General References

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



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

15% SDS-PAGE (3ug)