

# Recombinant Rat SOSD1 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP52515

Size: 10ug, 100ug

Protein Name: Sclerostin domain-containing protein 1 (Uterine sensitization-associated gene 1 protein) (USAG-1) (Wnt-signaling modulator)

Synonym: Sostdc1, Usag1, Wise

UniProt ID: Q642G2

UniProt Link: [www.uniprot.org/uniprotkb/Q642G2/entry](http://www.uniprot.org/uniprotkb/Q642G2/entry)

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 206 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MLPPAIHLSLIPLLCILMKNCLAFKNDATEILYSHVVKPVSAHPSSNSTLNQARNGGRRHFSSTGLDRNS  
RVQVGCRELRSTKYISDGQCTSSISPLKELVCAGECLPLPVLPNWIGGGYGTKYWSRRSSQEWRCVN  
DKTRTQRIQLQCQDGSTRTYKITVVTACKCKRYTRQHNESSHNFESVSPAKPAQHHRERKRASKSS  
KHLSL

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant Sclerostin domain-containing protein 1 (Uterine sensitization-associated gene 1 protein) (USAG-1) (Wnt-signaling modulator) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Directly antagonizes activity of BMP2, BMP4, BMP6 and BMP7 in a dose-dependent manner (By similarity). May be involved in the onset of endometrial receptivity for implantation/sensitization for the decidual cell reaction. Enhances Wnt signaling and inhibits TGF-beta signaling.

**Subcellular Localization:** Secreted .

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.