

Recombinant Mouse SOSD1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51866

Size: 10ug, 100ug

Protein Name: Sclerostin domain-containing protein 1 (Ectodermal BMP inhibitor) (Ectodin) (Sclerostin-like protein) (Uterine sensitization-associated gene 1 protein) (USAG-1)

Synonym: Sostdc1, Sostl, Usag1

UniProt ID: Q9CQN4

UniProt Link: www.uniprot.org/uniprotkb/Q9CQN4/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 206 AA

Molecular Weight: 23 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MLPPAIHLSLIPLLCILMRNCLAFKNDATEILYSHVVKPVPAPHPSSNSTLNQARNGGRRHFSSTGLDRN
SRVQVGCRELRSTKYISDGQCT SISPLKELVCAGECLPLPVLPNWIGGGYGTKYWSRRSSQEWRCV
NDKTRTQRIQLQCQDGSTRTYKITVVTACKCKRYTRQHNESSHNFESVSPAKPAQHHRERKRASKS
SKHSLS

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 (Ectodermal BMP inhibitor) (Ectodin) (Sclerostin-like protein) (Uterine sensitization-associated gene 1 protein) (USAG-1) 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: 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 (By similarity). Directly antagonizes activity of BMP2, BMP4, BMP6 and BMP7 in a dose-dependent manner.

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.