

Recombinant Mouse TWSG1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51885

Size: 10ug, 100ug

Protein Name: Twisted gastrulation protein homolog 1

Synonym: Twsg1, Tsg

UniProt ID: Q9EP52

UniProt Link: www.uniprot.org/uniprotkb/Q9EP52/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 222 AA

Molecular Weight: 25 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MKSHYIVLALASLTFLCLPVSQSCNKALCASDVSKCLIQELCQCRPGEGNCPCKECKMLCLGALWD
ECCDCVGM CNPRNYS DTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVS
FLETVNQLHHQNVSVPSNNVHAPFPSDKERMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNAC
CECIGPECIDYGSKTVKCMNCMF

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 Twisted gastrulation protein homolog 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 dorsoventral axis formation. Seems to antagonize BMP signaling by forming ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. May be an important modulator of BMP-regulated cartilage development and chondrocyte differentiation. May play a role in thymocyte development.

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.