

32-6583: TSG Human

Application : Functional Assay

Alternative Name : Twisted Gastrulation BMP Signaling Modulator 1, TSG, Twisted Gastrulation Homolog 1 (Drosophila), Twisted Gastrulation Protein Homolog 1, Twisted Gastrulation Homolog 1, TWSG1.

Description

Source: CHO.

Sterile Filtered White lyophilized (freeze-dried) powder.

Twisted gastrulation Protein (TSG) is a secreted, cysteine-rich protein which has a role in dorsal/ventral patterning in *Drosophila* and *Xenopus* by regulating BMP signaling. TSG functions as an agonist for BMP signaling by controlling the inhibitory actions of the BMP antagonist, Chordin/Sog, and the cleavage properties of the metalloprotease, xolloid/tolloid. TSG N-terminal domain binds BMP protein directly and displays BMP antagonist activity.

TWSG1 Human Recombinant (26-223) produced in CHO is a single, glycosylated, polypeptide chain containing 198 amino acids and having a molecular mass ranging from 35-43kDa on SDS-PAGE due to glycosylation. The TWSG1 is purified by proprietary chromatographic techniques.

Product Info

Amount : 10 µg / 50 µg

Purification : Greater than 95.0% as determined by SDS-PAGE.

Content : Lyophilized from a 0.2µm filtered solution in PBS.
It is recommended to reconstitute the lyophilized TSG in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage condition : Lyophilized TSG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TSG should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Amino Acid : CNKALCASDV SKCLIQELCQ CRPGEGNCSC CKECMLCLGA LWDECCDCVG MCNPRNYSdT
PPTSKSTVEE LHEPIPSLFR ALTEGDTQLN WNIVSFPVAE ELSHHENLVS FLETVNQPHH
QNVSVPSNNV HAPYSSDKEH MCTVVYFDDC MSIHQCKISC ESMGASKYRW FHNACCECIG
PECIDYGSKT VKCMN CMF.

Application Note

The ED₅₀, as measured by its ability to inhibit alkaline phosphatase production induced by rHuBMP-6 in mouse ATDC5 cells, is less than 16Åµg/ml.