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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 16Ã□Âµg/ml.

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