9051 Mira Mesa Blvd, #910094
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TSG Human

Twisted Gastrulation Protein Human Recombinant
CYK0614

Product Overview

Name	TSG Human
Description	
Twisted Gastrulation Protein Human Recombinant	
Accession (Primary)	Q9GZX9
Synonyms	
Twisted Gastrulation BMP Signaling Modulator 1, TSG, Twisted Gastrulation Homolog 1 (Drosophila), Twisted Gastrulation Protein Homolog 1, Twisted Gastrulation Homolog 1, TWSG1.	
Introduction	
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.	
Source	
CHO.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 μm filtered solution in PBS.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
CNKALCASDV SKCLIQELCQ CRPGEGNCSC CKECMLCLGA LWDECCDCVG MCNPRNYSDT PPTSKSTVEE LHEPIPSLFR ALTEGDTQLN WNIVSFPVAE ELSHHENLVS FLETVNQPHH QNVSVPSNNV HAPYSSDKEH MCTVVYFDDC MSIHQCKISC ESMGASKYRW FHNACCECIG PECIDYGSKT VKCMN CMF.	

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Biological Activity

The ED 50 , as measured by its ability to inhibit alkaline phosphatase production induced by rHuBMP-6 in mouse ATDC5 cells, is less than 16 µg/ml.

Solubility

It is recommended to reconstitute the lyophilized TSG in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

TSG Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9GZX9)