

Twisted Gastrulation Protein Human Recombinant

Item Number	rAP-0392
Synonyms	Twisted Gastrulation BMP Signaling Modulator 1, TSG, Twisted Gastrulation Homolog 1 (Drosophila), Twisted Gastrulation Protein Homolog 1, Twisted Gastrulation Homolog 1, TWSG1.
Description	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.
Uniprot Accesion Number	Q9GZX9
Amino Acid Sequence	CNKALCASDV SKCLIQELCQ CRPGEGNCS CKECMLCLGA LWDECCDCVG MCNPRNYSDT PPTSKSTVEE LHEPIPSSLFR ALTEGDTQLN WNIVSFVAE ELSHHENLVS FLETVNQPHH QNVSP- SNNV HAPYSSDKEH MCTVVFDDC MSIHQCKISC ESMGASKYRW FHNACCECIG PECIDYGSKT VKCMN CMF.
Source	CHO.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	Lyophilized from a 0.2µm filtered solution in PBS. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	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.
Biological Activity	The ED50, as measured by its ability to inhibit alkaline phosphatase production induced by rHuBMP-6 in mouse ATDC5 cells, is less than 16µg/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**