

Recombinant Human Twisted Gastrulation Homolog 1 (Drosophila)

Cat. No. TWSG1-1506H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TSG is a 199 amino acid protein containing the BMP/TGF β binding portion of the full length TSG protein expressed in <i>E. coli</i> cells. MW=22.2 kDa.
Species	Human
Source	<i>E. coli</i>
Description	Twisted Gastrulation Protein (TSG) is a secreted BMP binding protein structurally related to the BMP antagonists Chordin and Noggin. TSG can inhibit BMP activity by binding directly to BMP proteins, and can act either as a BMP4 agonist or antagonist (depending on the specific biochemical environment) by binding to the BMP4/Chordin complex.
Quantity	50 μ g.
Purity	Greater than 98% (determined by SDS-PAGE and HPLC analysis).
Endotoxin Level	< 0.1 ng per μ g of rHu TSG (1EU/ μ g).
Biological Activity	Determined by its ability to neutralize BMP-6 induced alkaline phosphatase production by chondrogenic cells. The expected ED50 for this effect is < 2.0 μ g/ml of TSG.
Formulation	Lyophilized from a sterile-filtered solution with no additives.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Reconstitution	Please Note: Always centrifuge product before opening vial. The lyophilized protein should be reconstituted with distilled, sterile water to a concentration of 0.1-1.0 mg/ml. For further dilution, carrier protein (0.1% BSA or HSA) should be added to avoid loss of bioactivity.
Storage And Stability	The lyophilized protein, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted protein should be used immediately or stored long-term in undiluted working aliquots at -20°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.
Full Length	Full L.
GENE INFORMATION	
Gene Name	TWSG1 twisted gastrulation homolog 1 (Drosophila) [Homo sapiens]
Synonyms	TWSG1; twisted gastrulation homolog 1 (Drosophila); TSG; Twisted gastrulation protein homolog 1; PSEC0250
Gene ID	57045
mRNA Refseq	NM_020648
Protein Refseq	NP_065699
UniProt ID	Q9GZX9
Chromosome Location	18p11.3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	605049
------------	--------

Function	protein binding
-----------------	-----------------

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA