

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/TGFβ binding portion of the full length TSG protein expressed in <i>E. coli</i> cells. MW=22.2 kDa.
Species	Human
Source	E.coli
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 µg.
Purity	Greater than 98% (determined by SDS-PAGE and HPLC analysis).
Endotoxin Level	< 0.1 ng per µg of rHu TSG (1EU/µg).
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 µg/ml of TSG.
Formulation	Lyophilized from a sterile-filtered solution with no additives.

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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

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MIM	605049
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Function	protein binding
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