

Recombinant Human TSG
Catalog # PBG10462**Specification**

Recombinant Human TSG - Product Information**Recombinant Human TSG - Additional Information****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. Recombinant human TSG is a 198 amino acid 22.2 kDa protein containing the BMP/TGF β binding portion of the full length TSG protein.

Biological Activity

Determined by its ability to neutralize BMP-6 induced alkaline phosphatase production by ATDC chondrogenic cells. The expected ED_{50} for this effect is $< 2.0 \mu\text{g/ml}$ of TSG.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is $< 0.1 \text{ ng/} \mu\text{g}$ of protein ($< 1 \text{ EU/} \mu\text{g}$).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

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

Recombinant Human TSG - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

Recombinant Human TSG - Images