

TWSG1

Catalog # PVGS1510

Specification

TWSG1 - Product Information

Sequence

Cys²⁶-Phe²²³ (Accession #: Q9GZX9), expressed with N-terminal 8×His

Purity

> 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level

< 0.2 EU/ μg, determined by LAL method.

Formulation

Lyophilized after extensive dialysis against PRS

Reconstitution

Reconstituted in ddH₂0 or PBS at 100 μ g/ml.

TWSG1 - Additional Information

Target Background

Twisted gastrulation (TWSG1 or TSG) is a cysteine-rich 24 kDa glycoprotein. It is a secreted BMP binding protein that modulates BMP ligand availability in extracellular space. Human TSG shares 98% aa identity with mouse and rat TSG, and 99.5% aa identity with canine, equine, bovine and porcine TSG. Glycosylation and bioactivity of TWSG1 recombinant proteins vary markedly by cellular source. Non-glycosylated hTWSG1 made in E. coli has both reduced affinity for BMPs, as shown by surface plasmon resonance analysis, and reduced BMP inhibitory activity in a mandibular explant culture system compared to glycosylated proteins made in insect cells or mouse myeloma cells.

br>Recombinant
bhuman Twisted Gastrulation (TSG),

bp> produced in HEK 293 cells is a polypeptide chain containing 211 amino acids. A fully biologically active molecule, rhTSG has a molecular mass of 30~33 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at .

TWSG1 - Protein Information

TWSG1 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry





- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TWSG1 - Images