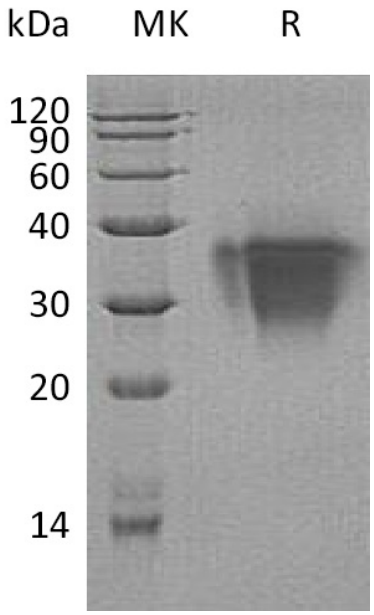
Product Name: Recombinant Human TWSG1 (C-6His)
Catalog #: PHH1749

Summary

Name	TWSG1/TSG
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/μg as determined by LAL test.
Construction	Recombinant Human Twisted Gastrulation Protein Homolog 1 is produced by our Mammalian expression system and the target gene encoding Cys26-Phe223 is expressed with a 6His tag at the C-terminus.
Accession #	Q9GZX9
Host	Human Cells
Species	Human
Predicted Molecular Mass	23.18 KDa
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Lyophilized protein should be stored at ≤ -20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image

Product Name: Recombinant Human TWSG1 (C-6His)
Catalog #: PHH1749



Alternative Names

Twisted Gastrulation Protein Homolog 1; TWSG1; TSG

Background

Twisted Gastrulation Protein Homolog 1 (TWSG1) is a 22 kDa secreted protein that belongs to the twisted gastrulation protein family. Human TWSG1 is synthesized as a 223 aa precursor that contains a 25 aa signal peptide and a 198 aa mature chain. TWSG1 may be involved in dorsoventral axis formation. TWSG1 seems to antagonize BMP signaling by forming ternary complexes with CHRD and BMPs, thereby preventing BMPs from binding to their receptors.TWSG1 can inhibit BMP activity by binding directly to BMP proteins, and can act the anti-BMP function, partly mediated by cleavage and degradation of CHRD, which releases BMPs from ternary complexes. TWSG1 may be an important modulator of BMP-regulated cartilage development, chondrocyte differentiation and thymocyte development.

Note

For Research Use Only , Not for Diagnostic Use.