

## 32-7357: Recombinant Human TWSG1/TSG (C-6His)

**Gene :** TWSG1  
**Gene ID :** 57045  
**Uniprot ID :** Q9GZX9

### Description

Source: Human Cells.  
MW :23.18kD.

Recombinant Human TWSG1 is produced by our Mammalian expression system and the target gene encoding Cys26-Phe223 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** CNKALCASDVSKCLIQELCQCRPGEGNCSCCKECLLGLWDECCDCVGMCPNPNYS DTPPTSKSTVEELH  
EPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETQVPHHQNVSVPNNVHAPYSSDKEHMCTVVY  
FDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKMNCMFVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.