

## Datasheet for ABIN7319134 **TWSG1 Protein (His tag)**



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### Overview

Quantity:	50 µg
Target:	TWSG1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TWSG1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human TWSG1/TSG Protein (His Tag)
Sequence:	Cys26-Phe223
Characteristics:	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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

### Target Details

Target:	TWSG1
Alternative Name:	TWSG1/TSG ( <a href="#">TWSG1 Products</a> )
Background:	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

## Target Details

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.

Synonym: Twisted Gastrulation Protein Homolog 1, TWSG1, TSG

Molecular Weight: 23.2 kDa

UniProt: [Q9GZX9](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.