

## Product datasheet

# Recombinant Human TWSG1/TSG protein ab50231

### Overview

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<b>Product name</b>	Recombinant Human TWSG1/TSG protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human
<b>Sequence</b>	CNKALCASDV SKCLIQELCQ CRPGEGNCSC CKECMLCLGA LWDECCDCVG MCNPRNYS DT PPTSKSTVEE LHEPIPSLFR ALTEGDTQLN WNVSFPVAE ELSHHENLVS FLETVNQPHH QNVSVPSNNV HAPYSSDKEH MCTVVYFDDC MSIHQCKISC ESMGASKYRW FHNACCECIG PECIDYGSKT VKCMNCMF
<b>Amino acids</b>	26 to 223

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab50231** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Endotoxin level</b>	< 0.100 Eu/μg
<b>Form</b>	Lyophilised
<b>Additional notes</b>	This product was previously labelled as TWSG1

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
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Preservative: None

Endotoxin level is less than 0.1 ng per µg (1EU/µg).

## Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4oC for 1 week or -20oC for future use

## General Info

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### Function

May be involved in dorsoventral axis formation. Seems to antagonize BMP signaling by forming ternary complexes with CHRDL1 and BMPs, thereby preventing BMPs from binding to their receptors. In addition to the anti-BMP function, also has pro-BMP activity, partly mediated by cleavage and degradation of CHRDL1, which releases BMPs from ternary complexes. May be an important modulator of BMP-regulated cartilage development and chondrocyte differentiation. May play a role in thymocyte development.

### Sequence similarities

Belongs to the twisted gastrulation protein family.

### Developmental stage

Expressed in brain throughout development.

### Domain

The N-terminal domain is sufficient to interact with BMP4.

### Cellular localization

Secreted.

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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