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## Datasheet for ABIN7539361 **WNT5A Protein (His tag)**

### Overview

Quantity:	10 µg
Target:	WNT5A
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WNT5A protein is labelled with His tag.

### Product Details

Purpose:	Wnt-5a
Sequence:	MIIGAQPLCS QLAGLSQGQK KLCHLYQDHM QYIGEGAKTG IKECQYQFRH RRWNCSTVDN TSVFGRVMQI GSRETAFTYA VSAAGVWNAM SRACREGELS TCGCSRAARP KDLPRDWLWG GCGDNIDYGY RFAKEFVDAR ERERIHAKGS YESARILMNL HNNEAGRRTV YNLADVACKC HGVSGSCSLK TCWLQLADFR KVGDALKEY DSAAMRLNS RGKLVQVNSR FNSPTTQDLV YIDSPDYCV RNESTGSLGT QGRLCNKTSE GMDGCELMCC GRGYDQFKTV QTERCHCKFH WCCYVKCKKC TEIVDQFVCK LEHHHHHH
Characteristics:	Length (aa):328
Purity:	> 90 % by SDS-PAGE and Coomassie stain

### Target Details

Target:	WNT5A
Alternative Name:	Wnt-5a ( <a href="#">WNT5A Products</a> )

## Target Details

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**Background:** Wnt-5a, Wnt5a, Wnt 5a, Wnt,Wnt-5a, a member of the highly conserved Wnt protein family, is a 352 amino acid protein containing 23 conserved cysteines and contains a cysteine modified by palmitate which is essential for receptor binding and biological activity. Wnt-5a is one of the most highly investigated non-canonical Wnts and has been implicated in almost all aspects of non-canonical Wnt signaling. In terms of cancer development, Wnt-5a has, until recently, lived in the shadow of its better-characterized relatives. This was largely because of its apparent inability to transform cells or signal through the canonical beta-catenin pathway that is so important in cancer, particularly colorectal cancer. Recent work in a wide range of human tumours has pointed to a critical role for Wnt-5a in malignant progression, but there is conflicting evidence whether Wnt-5a has a tumour-promoting or -suppressing role. Emerging evidence suggests that the functions of Wnt-5a can be drastically altered depending on the availability of key receptors. Hence, the presence or absence of these receptors may go some way to explain the conflicting role of Wnt-5a in different cancers.

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**Molecular Weight:** 36.9 kDa

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**Gene ID:** 22418

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**NCBI Accession:** [NM\\_009524](#)

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**UniProt:** [P22725](#)

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**Pathways:** [WNT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Regulation of Cell Size](#), [Tube Formation](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Mouse Wnt5a should be reconstituted in water to a concentration of 0.1 mg/mL. This solution can be diluted in water or other buffer solutions or stored at -20 °C.

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**Buffer:** 50 mM acetic acid

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**Storage:** RT, 0 °C, -20 °C

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**Storage Comment:** The lyophilized mouse Wnt5a, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted human Wnt5a should be stored in working aliquots at -20°C.