

Datasheet for ABIN4948752  
**WNT5A Protein (AA 38-380)**



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## Overview

Quantity:	2 µg
Target:	WNT5A
Protein Characteristics:	AA 38-380
Origin:	Mouse, Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

## Product Details

Specificity:	Stem cell or organoid culture
Purification:	This protein was purified using a combination of ion exchange, affinity column with Wnt signaling inhibitor-bound sepharose beads, and followed by gel filtration.
Purity:	70-75 %
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg)
Biological Activity Comment:	The inhibitory activity of Wnt5a on the canonical Wnt pathway has been measured using TCF-based Wnt reporter stable cell line stimulated by mouse Wnt3a. IE50 of Wnt5a is about 50 - 100 ng/mL in the presence of 1 -2 ng/mL of mouse Wnt3a.

## Target Details

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## Target Details

Alternative Name:	Wnt5a ( <a href="#">WNT5A Products</a> )
Background:	The WNT gene family consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis, adipogenesis, etc. and in several other developmental processes, including regulation of cell fate and patterning during embryogenesis. Protein Wnt5a is a protein that is encoded by the WNT5A gene. This gene is a member of the noncanonical WNT gene family. Mature mouse Wnt5a is 100 % identical in amino acids to mature human Wnt5a after being secreted from expression cells. Wnt5a protein can inhibit or activate TCF-based Wnt signaling.
Molecular Weight:	45 kDa evaluated by SDS-PAGE under reducing conditions
Gene ID:	7474, 22418
NCBI Accession:	<a href="#">NC_000080</a>
UniProt:	<a href="#">P41221</a> , <a href="#">P22725</a>
Pathways:	<a href="#">WNT Signaling</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Tube Formation</a>

## Application Details

Application Notes:	100 ng/mL  To treat cell lines, dilute the protein solution at least 200 times in medium, to treat stem cells, dilute the protein solution at least 500 times in medium. Diluted Wnt proteins in medium or phosphate buffer can be stored at 4 °C for few days only.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Phosphate buffer pH 7.4-7.6, 1 % CHAPS, 0.1 % BSA
Handling Advice:	Mix the protein by pipetting up and down but not by vortexing
Storage:	-20 °C
Storage Comment:	Keep the protein frozen until use. Refreeze aliquots at -20C or below but avoid freeze-thaw circles.