antibodies .- online.com





Go to Product page

Datasheet for ABIN3096337

WNT5A Protein (AA 62-380) (His tag)

Overview

Quantity:	1 mg
Target:	WNT5A
Protein Characteristics:	AA 62-380
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This WNT5A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

IIGAQPLCSQ LAGLSQGQKK LCHLYQDHMQ YIGEGAKTGI KECQYQFRHR RWNCSTVDNT SVFGRVMQIG SRETAFTYAV SAAGVVNAMS RACREGELST CGCSRAARPK DLPRDWLWGG CGDNIDYGYR FAKEFVDARE RERIHAKGSY ESARILMNLH NNEAGRRTVY NLADVACKCH GVSGSCSLKT CWLQLADFRK VGDALKEKYD SAAAMRLNSR GKLVQVNSRF NSPTTQDLVY IDPSPDYCVR NESTGSLGTQ GRLCNKTSEG MDGCELMCCG RGYDQFKTVQ TERCHCKFHW CCYVKCKKCT EIVDOFVCK

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human WNT5A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	WNT5A	
Alternative Name:	WNT5A (WNT5A Products)	
Background:	Ligand for members of the frizzled family of seven transmembrane receptors. Can activate or	

inhibit canonical Wnt signaling, depending on receptor context. In the presence of FZD4,
activates beta-catenin signaling. In the presence of ROR2, inhibits the canonical Wnt pathway
by promoting beta-catenin degradation through a GSK3-independent pathway which involves
down-regulation of beta-catenin-induced reporter gene expression. Suppression of the
canonical pathway allows chondrogenesis to occur and inhibits tumor formation. Stimulates
cell migration. Decreases proliferation, migration, invasiveness and clonogenicity of carcinoma
cells and may act as a tumor suppressor. Mediates motility of melanoma cells. Required during
embryogenesis for extension of the primary anterior-posterior axis and for outgrowth of limbs
and the genital tubercle. Inhibits type II collagen expression in chondrocytes.
{ECO:0000269 PubMed:15735754, ECO:0000269 PubMed:17426020}.

Molecular Weight:	36.8 kDa Including tag.	
UniProt:	P41221	
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

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	

Handling

Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

\vdash	land	linc
	iaria	11116

Expiry Date:

Unlimited (if stored properly)