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## Datasheet for ABIN2469224 WNT7A Protein



Quantity:		

Overview

Quantity:	0.003 mg
Target:	WNT7A
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Sequence:	LGASIICNKI PGLAPRQRAI CQSRPDAIIV IGEGSQMGLD ECQFQFRNGR WNCSALGERT VFGKELKVGS REAAFTYAII AAGVAHAITA ACTQGNLSDC GCDKEKQGQY HRDEGWKWGG CSADIRYGIG FAKVFVDARE IKQNARTLMN LHNNEAGRKI LEENMKLECK CHGVSGSCTT KTCWTTLPQF RELGYVLKDK YNEAVHVEPV RASRNKRPTF LKIKKPLSYR KPMDTDLVYI EKSPNYCEED PVTGSVGTQG RACNKTAPQA SGCDLMCCGR GYNTHQYARV WQCNCKFHWC CYVKCNTCSE RTEMYTCK
Characteristics:	Biological activity was determined by its ability to inhibit Wnt3a induced alkaline phosphatase production in MC3T3-E1 cells. The expected ED50 for this effect is 40-60 ng/mL.
Purity:	< 80 % by SDS-PAGE gel and HPLC analyses.
Target Details	
Target:	WNT7A
Alternative Name:	WNT-7A (WNT7A Products)

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## Target Details

Background:	Wnt-7a belongs to the Wnt family of signaling proteins that play a key role in maintaining the
	integrity of embryonic and adult tissues. It is expressed in placenta, kidney, testis, uterus, fetal
	lung and fetal and adult brain. Most Wnt proteins can signal though a mechanism called the
	canonical Wnt pathway, in which Wnt proteins bind to and activate seven-pass transmembrane
	receptors of the Frizzled family ultimately leading to the disruption of ?-Catenein degradation.
	Intracellular accumulation of beta-Catenin increases translocation of the protein into the
	nucleus where it binds to TCF/LEF transcription factors and induces the expression of
	numerous genes. Increased Wnt/?-Catenein signaling is associated with tumorigenesis in a
	diverse set of human cancers. However, Wnt-7a/Frizzled-9 signaling has been shown to act as
	a tumor suppressor in non-small cell lung cancers. Recombinant human Wnt-7a is a 35.5 kDa
	glycoprotein containing 318 amino acids. Due to glycosylation, Wnt-7a migrates between 40-55
	kDa by SDS-PAGE gel under unreduced conditions.
Gene ID:	7476
NCBI Accession:	NP_004616

OMIM:	17505191
UniProt:	000755
Pathways:	WNT Signaling, Stem Cell Maintenance, Asymmetric Protein Localization

## Application Details

Restrictions:

For Research Use only

## Handling

Format:	Lyophilized
Handling Advice:	As with any protein, exposing WNT-7A recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
Storage:	-20 °C
Storage Comment:	The recombinant protein is stable for at least 2 years from date of receipt at -20 °C. Reconstituted WNT-7A stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.
Expiry Date:	24 months

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