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Datasheet for ABIN7539358 **WNT3A Protein (His tag)**

Overview

Quantity:	10 µg
Target:	WNT3A
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WNT3A protein is labelled with His tag.

Product Details

Purpose:	Wnt-3a
Sequence:	MSYPIWWSLA VGPQYSSLST QPILCASIPG LVPKQLRFCR NYVEIMPSVA EGVKAGIQEC QHQRFRGRWN CTTVSNSLAI FGPVLDKATR ESAFVHAIAS AGVAFVTRTS CAEGSAAICG CSSRLQGSPG EGWKWGGCSE DIEFGGMVSR EFADARENRP DARSAMNRHN NEAGRQAIAS HMHLKCKCHG LSGSCEVKTC WWSQPDFRTI GDFLKDKYDS ASEMVEKHR ESRGWVETLR PRYTYFKVPT ERDLVYYEAS PNFCEPNPET GSFGTRDRTC NVSSHGIDGC DLLCCGRGHN ARTERRREKC HCVFHWCCYV SCQECTRVYD VHTCKLEHHH HHH
Characteristics:	Length (aa):343
Purity:	> 85 % by SDS-PAGE and Coomassie Stain

Target Details

Target:	WNT3A
Alternative Name:	Wnt-3a (WNT3A Products)

Target Details

Background: Wingless-type MMTV (mouse mammary tumor virus) integration site family member 3a, Wnt-3a belongs to the Wnt family of signaling proteins that play a key role in maintaining the integrity of embryonic and adult tissues. Expression of Wnt-3a occurs primarily along the dorsal midline across overlapping regions of the Central Nervous System (CNS). Wnt-3a signaling is essential for various morphogenetic events, including embryonic patterning, cell determination, cell proliferation, CNS development, and cytoskeletal formation. Like other members of this family, Wnt-3a contains a highly conserved lipid-modified, cysteine-rich domain that is essential for cell signaling. During a biochemical process called the canonical Wnt pathway, Wnt family members bind to and activate, seven-pass transmembrane receptors of the Frizzled family, ultimately leading to the disruption of β -catenin degradation. Intracellular accumulation of β -catenin increases translocation of the protein into the nucleus, where it binds to TCF/LEF transcription factors to promote gene expression. Lack of Wnt signaling disrupts transcriptional activation of tumor suppressor genes, and has been shown to result in neoplastic transformation, oncogenesis, and human degenerative diseases. Recombinant Murine Wnt-3a is a monomeric glycoprotein containing 334 amino acid residues.

Gene ID: 22416

NCBI Accession: [NM_009522](#)

UniProt: [P27467](#)

Pathways: [WNT Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Regulation of Cell Size](#), [Positive Regulation of Endopeptidase Activity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized