

Wnt-7a active protein

Human Wnt-7a

CATALOG # AAA79230	HOST HEK 293 Cells	REACTIVITY Human
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PRODUCT SYNONYMS

Wnt-7a; Human Wnt-7a; WNT7A; Wnt-7a active protein

PRODUCT SPECIFICATIONS

Host	HEK 293 Cells
Reactivity	Human
Purity/Purification	>80% by SDS-PAGE & HPLC analysis
Form/Format	Lyophilized from 10mM Sodium Phosphate, pH7.5 + 500mM NaCl + 0.5% CHAPS
Sequence	LGASIICNKI PGLAPRQRAI CQSRPDIIIV IGEQSQMGDL ECQFQFRNGR WNCSALGERT VFGKELKVGS REAAFTYAI AAGVAHAITA ACTQGNLSDC GCDKEKQGQY HRDEGWKWGG CSADIRYGIG FAKVFVDARE IKQNARTLMN LHNNEAGRKI LEENMKLECK CHGVSGSCTT KTCWTTLPQF RELGYVLKDK YNEAVHVEPV RASRNKRPTF LKIKKPLSYR KPMDTDLVYI EKSPNYCEED PVTGSGVTQG RACNKTAPQA SGCDLMCCGR GYNTHQYARV WQCNCNCFHWC CYVKCNTCSE RTEMYTCK
Sequence Length	349
Length (aa)	18
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of ≤ 0.2 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Endotoxin level	< 0.1 ng /ug of protein (<1EU/ug)
Biological Activity	Determined by its ability to decrease alkaline phosphatase activity in CCL-226 cells when treated with 25 ng/ml of murine Wnt3a.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 3 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

ADDITIONAL INFORMATION

Related Product Information for Wnt-7a active protein	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 through 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 beta-Catenin degradation. Intracellular accumulation of β -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/beta-Catenin 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
Product Categories/Family for Wnt-7a active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	17505191
NCBI GeneID	7476
NCBI Accession #	NP_004616.2
NCBI GenBank Nucleotide #	NM_004625.3
UniProt Accession #	O00755; Q96H90; Q9Y560
Molecular Weight	35.5 kDa
NCBI Official Full Name	protein Wnt-7a
NCBI Official Synonym Full Names	wingless-type MMTV integration site family, member 7A
NCBI Official Symbol	WNT7A
NCBI Protein Information	protein Wnt-7a; proto-oncogene Wnt7a protein
UniProt Protein Name	Protein Wnt-7a
UniProt Gene Name	WNT7A
UniProt Entry Name	WNT7A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek-293-cells-human-active-protein/wnt-7a/79230>