

Recombinant Human wingless-type MMTV integration site family, member 7A, His-tagged

Cat. No. WNT7A-278H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WNT7A, 32-349aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	32-349 a.a.
Description	WNT7A is a member of the WNT gene family, which consists of structurally related genes that encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene is involved in the development of the anterior-posterior axis in the female reproductive tract, and also plays a critical role in uterine smooth muscle patterning and maintenance of adult uterine function. Mutations in this gene are associated with Fuhrmann and Al-Awadi/Raas-Rothschild/Schinzel p hocomelia syndromes. Recombinant human WNT7A protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea
Molecular Mass	38.0 kDa (341aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSLGASIIC NKIPGLAPRQ RAICQSRPDA IIVIGEGSQM GLDECQFQFR NGRWNCALG ERTVFGKELK VGSREAAFTY

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AIIAAGVAHA ITAACTQGNL SDCGCDKEKQ GQYHRDEGWK WGGCSADIRY
 GIGFAKVVD AREIKQNART LMNLHNNEAG RKILEENMKL ECKCHGVSGS
 CTTKTCWTTL PQFRELGYVL KDKYNEAVHV EPVRASRNKR PTFLEKIKKPL
 SYRKPMDTD L VYIEKSPNYC EEDPVTG SVG TQGRACNKTA PQASGCDLMC
 CGRGYNTHQY ARVWQCNCCKF HWCCYVKCNT CSERTEMYTC K

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [WNT7A wingless-type MMTV integration site family, member 7A \[Homo sapiens \]](#)

Official Symbol WNT7A

Synonyms WNT7A; wingless-type MMTV integration site family, member 7A; protein Wnt-7a; proto oncogene Wnt7a protein; proto-oncogene Wnt7a protein;

Gene ID [7476](#)

mRNA Refseq [NM_004625](#)

Protein Refseq [NP_004616](#)

MIM [601570](#)

UniProt ID [O00755](#)

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Chromosome Location	3p25
Pathway	Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; DNA damage response (only ATM dependent), organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; HTLV-I infection, organism-specific biosystem; HTLV-I infection, conserved biosystem;
Function	cytokine activity; frizzled binding; receptor agonist activity; receptor agonist activity; receptor binding;

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