

Recombinant Full Length Human WNT5A Protein, C-Flag-tagged

Cat. No. WNT5A-195HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human WNT5A Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-380 aa
Description	The WNT gene family consists of structurally related genes which 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 encodes a member of the WNT family that signals through both the canonical and non-canonical WNT pathways. This protein is a ligand for the seven transmembrane receptor frizzled-5 and the tyrosine kinase orphan receptor 2. This protein plays an essential role in regulating developmental pathways during embryogenesis. This protein may also play a role in oncogenesis. Mutations in this gene are the cause of autosomal dominant Robinow syndrome. Alternate splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	42.2 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVIEANSWWSLGMNNPVQM SEVYIIGAQPLCS QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRW NCSTVDNTSVFGRVMQIGSRETAFTYA VSAAGVVNAMSRACREGELSTCGCSRAA RPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS YESARILMNLHNN EAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEYDSAAAMRL NS RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMD GCELMCCGRGYDQFKTV QTERCHCKFHWCCYVKCKKCTEIVDQFVCKTRTRPLEQKLISEEDLAANDILDYKDD DDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - Wnt Signaling pathway
Protein Pathways	Basal cell carcinoma, Hedgehog signaling pathway, Melanogenesis, Pathways in cancer, Wnt signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name WNT5A Wnt family member 5A [Homo sapiens (human)]

Official Symbol WNT5A

Synonyms hWNT5A

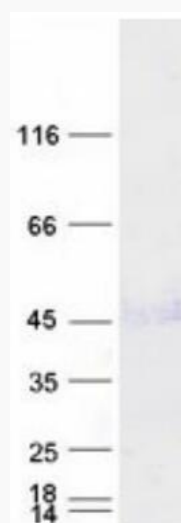
Gene ID 7474

mRNA Refseq NM_003392.7

Protein Refseq NP_003383.4

MIM 164975

UniProt ID P41221



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Coomassie blue staining of purified WNT5A protein.