

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

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AA Sequence

MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVIEANSWWSLGMNNPVQM
 SEVYIIGAQPLCS QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRW
 NCSTVDNTSVFGRVMQIGSRETAFTYA VSAAGVVNAMSRACREGELSTCGCSRAA
 RPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS YESARILMNLHNN
 EAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRL
 NS RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMD
 GCELMCCGRGYDQFKTV
 QTERCHCKFWCCYVKCKKCTEIVDQFVCKTRTRPLEQKLISEEDLAANDILDYKDD
 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.

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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.

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