

Product datasheet for PH309206

WNT5A (NM_003392) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	WNT5A MS Standard C13 and N15-labeled recombinant protein (NP_003383)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209206
Predicted MW:	42.3 kDa
Protein Sequence:	>RC209206 protein sequence Red=Cloning site Green=Tags(s)
	MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVEANSWWSLGMNPNVQMSEVYIIGAQPLCS QLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYA VSAAGVYNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGS YESARILMNLHNNEAGRRTVYNLADVACKCHGVSGCSLKTCLWLQADFRKVGDALKEKYDSAAAMLNS RGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNSTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTV QTERCHCKFWCCYVKCKKCTEIVDQFVCK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	50 ug/ml as determined by BCA
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	100 mM glycine, 25 mM Tris-HCl, pH 7.3. Store at -80°C. Avoid repeated freeze-thaw cycles. Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003383</u>
RefSeq Size:	6194
RefSeq ORF:	1140
Synonyms:	hWNT5A
Locus ID:	7474
Cytogenetics:	3p14.3



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Summary:

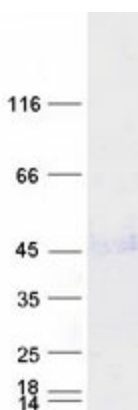
The WNT gene family consists of structurally related genes which encode secreted signaling proteins. These proteins have been implicated in oncogenesis and in several developmental processes, including regulation of cell fate and patterning during embryogenesis. This gene encodes a member of the WNT 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. [provided by RefSeq, Jan 2012]

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

Product images:

Coomassie blue staining of purified WNT5A protein (Cat# [TP309206]). The protein was produced from HEK293T cells transfected with WNT5A cDNA clone (Cat# [RC209206]) using MegaTran 2.0 (Cat# [TT210002]).