

Recombinant Human WNT5A, GST-tagged

Cat. No. WNT5A-2052H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human WNT5A (201 a.a. - 300 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	36.74 kDa
Sequence	ERERIHAKGSYESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQL ADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLV
Purification	Glutathione Sepharose 4 Fast Flow

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Storage buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.
OfficialSymbol	WNT5A

GENE INFORMATION

Gene Name	WNT5A wingless-type MMTV integration site family, member 5A [Homo sapiens]
Synonyms	WNT5A; wingless-type MMTV integration site family, member 5A; protein Wnt-5a; hWNT5A; WNT 5A protein; WNT-5A protein
Gene ID	7474
mRNA Refseq	NM_001256105
Protein Refseq	NP_001243034
MIM	164975
UniProt ID	P41221
Chromosome Location	3p21-p14
Pathway	Basal cell carcinoma; Class B/2 (Secretin family receptors); DNA damage response (only ATM dependent); GPCR ligand binding; HTLV-I infection

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Function

cytokine activity; frizzled binding; frizzled-2 binding; protein domain specific binding; receptor agonist activity; receptor tyrosine kinase-like orphan receptor binding; sequence-specific DNA binding transcription factor activity; transcription regulatory region DNA binding

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