

Recombinant Human KIF5C, His-tagged

Cat. No. KIF5C-28649TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 500-957 of Human Kinesin 5C, with N terminal His tag; MWt 55kDa.
Species	Human
Source	E.coli
ProteinLength	500-957 a.a.
Description	Kinesins are a superfamily of microtubule-associated motor proteins involved in a variety of cellular processes including membranous organelle transport and cell division. Kinesin has been found in a variety of organisms and cell types, and is subject to spatial and temporal regulation. These proteins have a modular structure including a conserved motor domain of approximately 350 amino acids, which is responsible for microtubule binding and ATP hydrolysis. In addition to the motor domain, subfamily members share common domain organization, exhibit sequence similarity, motility properties, and cellular functions outside of the motor domain. They typically consist of two identical, approximately 110 to 120 kDa heavy chains, and two identical, approximately 60 to 70 kDa light chains. There are currently three known Kinesin 5 family members denoted as A, B, and C. Kinesin 5A and kinesin 5C appear to be exclusively neuronal, whereas kinesin 5B appears to be ubiquitous in its expression.
Conjugation	HIS

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Form	Lyophilised:Reconstitute with 57 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium hydrogen phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QKSQEVEDKTRANEQLTDELAQKTTTTLTQRELSQLQEL SNHQKKRATEILNLLK DLGEIGGIIGTNDVKTADV NVIEEFTMARLYISKMKSEVKSLSVNRSKQLESAQMD S NRKMNASERELAACQLLISQHEAKIKSLTDYMQNMEQK RRQLEESQDSLSEELA KLRAQEKMHVSFQDKEKEHLTRL QDAEEMKKALEQQMESHREAHQKQLSRLRD EIEEKQKI IDEIRDLNQKLQLEQEKSSDYNKLKIEDQEREMKLEK LLLLNDKREQAR EDLKGLEETVSRELQTLHNLRLKLFVQ DLTRVKKSVELDNDDGGGSAAQKQKISFL ENNLEQLT KVHKQLVRDNADLRCELPKLEKRLRATAERVKALESALKE AKENAMRD RKRYQQEVDRIKEAVRAKNMARRAHSAQIA KPIRPGHYPASSPTAVHAIRGGGGSS SNSTHYQK

GENE INFORMATION

Gene Name	KIF5C kinesin family member 5C [Homo sapiens]
Official Symbol	KIF5C
Synonyms	KIF5C; kinesin family member 5C; kinesin heavy chain isoform 5C;
Gene ID	3800
mRNA Refseq	NM_004522
Protein Refseq	NP_004513

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MIM	604593
Uniprot ID	O60282
Chromosome Location	2q23
Pathway	Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem;
Function	ATP binding; apolipoprotein receptor binding; microtubule motor activity; nucleotide binding; protein binding;

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