Recombinant Full Length Human KLC2 Protein, C-Flag-tagged

Cat. No. KLC2-1945HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human KLC2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a light chain of kinesin, a molecular motor responsible for moving vesicles and organelles along microtubules. Defects in this gene are a cause of spastic paraplegia, optic atrophy, and neuropathy (SPOAN) syndrome.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	68.8 kDa
AA Sequence	MAMMVFPREEKLSQDEIVLGTKAVIQGLETLRGEHRALLAPLVAPEAGEAEPGSQER CILLRRSLEAIEL GLGEAQVILALSSHLGAVESEKQKLRAQVRRLVQENQWLREELA GTQQKLQRSEQAVAQLEEEKQHLLFM SQIRKLDEDASPNEEKGDVPKDTLDDLFPN EDEQSPAPSPGGGDVSGQHGGYEIPARLRTLHNLVIQYAS QGRYEVAVPLCKQAL EDLEKTSGHDHPDVATMLNILALVYRDQNKYKEAAHLLNDALAIREKTLGKDHPA VA ATLNNLAVLYGKRGKYKEAEPLCKRALEIREKVLGKFHPDVAKQLSNLALLCQNQGK AEEVEYYYRRA LEIYATRLGPDDPNVAKTKNNLASCYLKQGKYQDAETLYKEILTRA HEKEFGSVNGDNKPIWMHAEEREE SKDKRRDSAPYGEYGSWYKACKVDSPTVNT TLRSLGALYRRQGKLEAAHTLEDCASRNRKQGLDPASQTK VVELLKDGSGRRGDR

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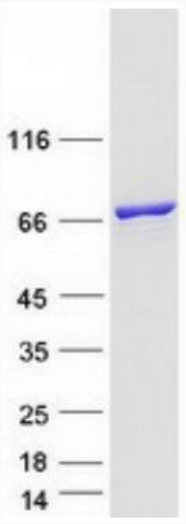
	RSSRDMAGGAGPRSESDLEDVGPTAEWNGDGSGSLRRSGSFGKLRDALRRSSEML VKKLQGGTPQEPPNPRMKRASSLNFLNKSVEEPTQPGGTGLSDSRTLSSSSMDL SRRSSLVG TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper 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	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	KLC2 kinesin light chain 2 [Homo sapiens (human)]
Official Symbol	KLC2
Synonyms	SPOAN
Gene ID	64837
mRNA Refseq	NM_001134775.2

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Protein Refseq	NP_001128247.1
MIM	611729
UniProt ID	Q9H0B6



Coomassie blue staining of purified KLC2 protein.

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