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

Cat. No. WAS-66HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human WAS Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The Wiskott-Aldrich syndrome (WAS) family of proteins share similar domain structure, and are involved in transduction of signals from receptors on the cell surface to the actin cytoskeleton. The presence of a number of different motifs suggests that they are regulated by a number of different stimuli, and interact with multiple proteins. Recent studies have demonstrated that these proteins, directly or indirectly, associate with the small GTPase, Cdc42, known to regulate formation of actin filaments, and the cytoskeletal organizing complex, Arp2/3. Wiskott-Aldrich syndrome is a rare, inherited, X-linked, recessive disease characterized by immune dysregulation and microthrombocytopenia, and is caused by mutations in the WAS gene. The WAS gene product is a cytoplasmic protein, expressed exclusively in hematopoietic cells, which show signalling and cytoskeletal abnormalities in WAS patients. A transcript variant arising as a result of alternative promoter usage, and containing a different 5' UTR sequence, has been described, however, its full-length nature is not known.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	52.7 kDa
AA Sequence	MSGGPMGGRPGGRGAPAVQQNIPSTLLQDHENQRLFEMLGRKCLTLATAVVQLYL ALPPGAEHWTKEHCG AVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYSTP TPFFHTFAGDDCQAGLNFADEDEAQAFRAL VQEKIQKRNQRQSGDRRQLPPPPTP ANEERRGGLPPLPLHPGGDQGGPPVGPLSLGLATVDIQNPDITSS RYRGLPAPGPS PADKKRSGKKKISKADIGAPSGFKHVSHVGWDPQNGFDVNNLDPDLRSLFSRAGIS EAQ LTDAETSKLIYDFIEDQGGLEAVRQEMRRQEPLPPPPPPSRGGNQLPRPPIVG GNKGRSGPLPPVPLGIA PPPPTPRGPPPPGRGGPPPPPPPPATGRSGPLPPPPPGA GGPPPMPPPPPPPPPPSSGNGPAPPPLPPALV PAGGLAPGGGRGALLDQIRQGIQ LNKTPGAPESSALQPPPQSSEGLVGALMHVMQKRSRAIHSSDEGEDQ AGDEDEDDEWDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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
Protein Pathways	Adherens junction, Chemokine signaling pathway, Fc gamma R-mediated phagocytosis, Pathogenic Escherichia coli infection, Regulation of actin cytoskeleton

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Full Length	Full L.

GENE INFORMATION

Gene Name	WAS WASP actin nucleation promoting factor [Homo sapiens (human)]
Official Symbol	WAS
Synonyms	THC; IMD2; SCNX; THC1; WASP; WASPA
Gene ID	7454
mRNA Refseq	NM_000377.3
Protein Refseq	NP_000368.1
MIM	300392
UniProt ID	P42768

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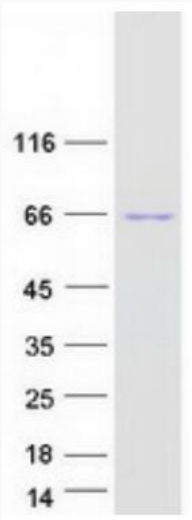

Coomassie blue staining of purified WAS protein.

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