

Recombinant Human WAS Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. WAS-6714H Lot. No. (See product label)

SPECIFICATION

Product Overview	WAS MS Standard C13 and N15-labeled recombinant protein (NP_000368) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	52.7 kDa

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AA Sequence

MSGGPMGGRPGGRGAPAVQQNIPSTLLQDHENQRLFEMLGRKCLTLATAVVQLYL
ALPPGAEHWTKEHCGAVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYSTPT
PFFHTFAGDDCQAGLNFADEDEAQAFLRVQEIKQRNQSGDRRLPPPPTPA
NEERRGGLPLPLHPGGDQGGPPVGPLSLGLATVDIQNPDTSSRYRGLPAPGPSP
ADKKRSGKKKISKADIGAPSGFKHVSHVGWDPQNGFDVNNLDPDLRSLFSRAGISE
AQLTDAETSKLIYDFIEDQGGLEAVRQEMRRQEPLPPPPPPSRGGNQLPRPPIVGG
NKGRSGPLPPVPLGIAPPPPTPRGPPPPGRGGPPPPPPPATGRSGPLPPPPPGAG
GPPMPPPPPPPPPPSSGNGPAPPPLPPALVPAGGLAPGGGGRGALLDQIRQGIQLN
KTPGAPESSALQPPQSSSEGLVGALMHVMQKRSRAIHSSDEGEDQAGDEDEDDE
WDDTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

WAS WASP actin nucleation promoting factor [Homo sapiens (human)]

Official Symbol

WAS

Synonyms

WAS; WASP actin nucleation promoting factor; THC; IMD2; SCN1; THC1; WASP;
WASPA; wiskott-Aldrich syndrome protein; eczema-thrombocytopenia;
thrombocytopenia 1 (X-linked)

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Gene ID	7454
mRNA Refseq	NM_000377
Protein Refseq	NP_000368
MIM	300392
UniProt ID	P42768
SDS-PAGE	