

Recombinant Human VASP, His-tagged

Cat. No. VASP-30994TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human VASP with an N terminal His tag; 363 amino acids with the tag, predicted mwt: 37.5 kDa.
Species	Human
Source	E.coli
ProteinLength	343 amino acids
Description	Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family members have a proline-rich domain that binds SH3 and WW domain-containing proteins. Their C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. VASP is associated with filamentous actin formation and likely plays a widespread role in cell adhesion and motility. VASP may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kinases PKA and PKG.
Conjugation	HIS
Molecular Weight	37.500kDa inclusive of tags
Tissue specificity	Highly expressed in platelets.

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Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 5mM DTT, 200mM Sodium chloride, 20mM Tris HCl, 0.1mM PMSF, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSETVICSSR ATVMLYDDGN KRWLPAGTGP QAFSRVQIYH NPTANSFRVV GRKMQPDQQV VINCAIVRGV KYNQATPNFH QWRDARQVWG LNFGSKEDAA QFAAGMASAL EALEGGGPPP PPALPTWSVP NGPSPEEVEQ QKRQQPGPSE HIERRVSNAG GPPAPPAGGP PPPPGPPPPP GPPPPPGLPP SGVPAAAHGA GGGPPPAPPL PAAQGPGGGG AGAPGLAAAI AGAKLRKVSK QEEASGGPTA PKAESGRSGG GGLMEEMNAM LARRRKATQV GEKTPKDESA NQEEPEARVP AQSESVRRPW EKNSTTLPRM KSSSSVTTSE TQPCTPSSSD YSD
Sequence Similarities	Belongs to the Ena/VASP family. Contains 1 WH1 domain.

GENE INFORMATION

Gene Name	VASP vasodilator-stimulated phosphoprotein [Homo sapiens]
Official Symbol	VASP
Synonyms	VASP; vasodilator-stimulated phosphoprotein;
Gene ID	7408

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mRNA Refseq	NM_003370
Protein Refseq	NP_003361
MIM	601703
Uniprot ID	P50552
Chromosome Location	19q13.2-q13.3
Pathway	Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem; Cell junction organization, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Cell-extracellular matrix interactions, organism-specific biosystem;
Function	SH3 domain binding; actin binding; profilin binding; protein binding;

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