

Active Recombinant Human Dual Specificity Phosphatase 3

Cat. No. DUSP3-1207H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	E.coli
Description	<p>The mammalian dual-specificity protein-tyrosine phosphatase VHR (for VH1-related) has been identified as a novel regulator of extracellular regulated kinases (ERKs). Vaccinia Virus VH1-related Phosphatase (VHR), also known as Dual-Specificity Phosphatase 3 (DUSP3), removes phosphate groups from tyrosine, serine, and threonine residues. It belongs to a family of phosphatases that selectively dephosphorylate MAP kinases. VHR has been shown to act as a phosphatase for several members of the MAP kinase family including ERK1, ERK2, and JNK. It is a target for the ZAP-70 kinase, and phosphorylation of VHR at tyrosine 138 leads to a downregulation of ERK2 activity. Its welldefined biochemistry has made VHR useful in screening assays for compounds that inhibit phosphatases.</p>
Form	Liquid. Supplied in 50 mM HEPES pH 7.4, 40 mM NaCl, 1 mM EDTA and 1 mM DTT.
Purity	≥90% by SDS-PAGE.
Activity	1 nmol of Cdc25A will hydrolyze 180 nmol of pNPP per minute at 37°C at pH 6.5.
Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles.

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GENE INFORMATION

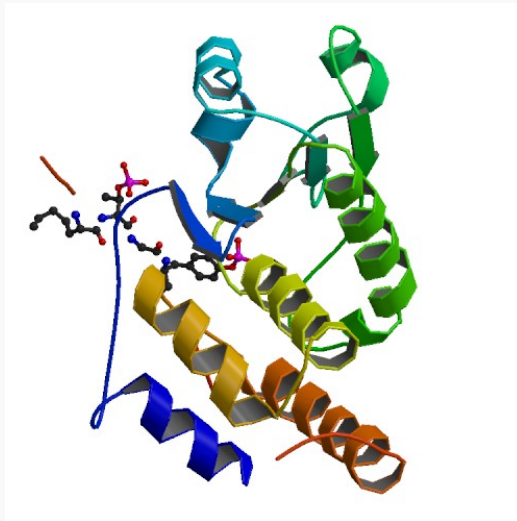
Gene Name	DUSP3 dual specificity phosphatase 3 [Homo sapiens]
Synonyms	DUSP3; dual specificity phosphatase 3; VHR; vaccinia virus phosphatase VH1-related; Dual specificity protein phosphatase 3; EC=3.1.3.48; EC=3.1.3.16; Dual specificity protein phosphatase VHR; serine/threonine specific protein phosphatase; vaccinia virus phosphatase VH1-related
Gene ID	1845
mRNA Refseq	NM_004090
Protein Refseq	NP_004081
MIM	600183
UniProt ID	P51452
Chromosome Location	17q21
Pathway	MAPK signaling pathway; Signalling by NGF
Function	hydrolase activity, protein tyrosine; phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity

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