

Active Recombinant Human Dual Specificity Phosphatase 3

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

SPECIFICATION

Product Overview

Species	Human
Source	E.coli
Description	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.
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.

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Storage Quality guaranteed for 12 months store at - 80°C. Avoid freeze / thaw cycles.

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

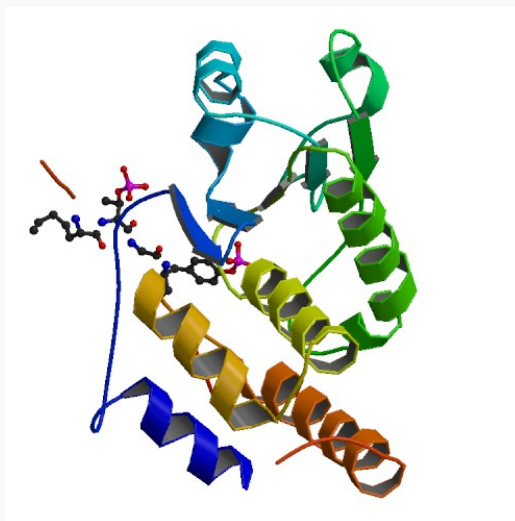
Function hydrolase activity, protein tyrosine; phosphatase activity; protein tyrosine phosphatase activity; protein tyrosine/serine/threonine phosphatase activity

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