

# Recombinant Human DUSP3/VHR Protein

Catalog Number:PKSH031861



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

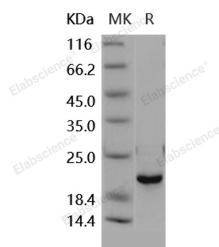
## Description

<b>Synonyms</b>	Dual specificity protein phosphatase 3;DUSP3;Dual specificity protein phosphatase VHR;Vaccinia H1-related phosphatase;VHR
<b>Species</b>	Human
<b>Expression Host</b>	Baculovirus-Insect Cells
<b>Sequence</b>	Met 1-Pro 185
<b>Accession</b>	P51452
<b>Calculated Molecular Weight</b>	20.6 kDa
<b>Observed molecular weight</b>	21 kDa
<b>Tag</b>	None
<b>Bioactivity</b>	Measured by hydrolysis of 250 $\mu$ M 3-O-methyl fluorescein phosphate (OMFP). The specific activity is > 1.0 $\mu$ mol/min/m

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Vaccinia H1-related phosphatase (VHR) is classified as a dual-specificity phosphatase (DUSP); and the other name is dual-specificity phosphatase 3 (DUSP3). DUSPs are a heterogeneous group of protein phosphatases that can dephosphorylate both phosphotyrosine and phosphoserine/phosphothreonine residues within the one substrate. Unlike typical DUSPs; VHR lacks mitogen-activated protein kinase (MAPK)-binding domain; and shows poor activity against MAPKs. VHR often act on bisphosphorylated protein substrates; it displays a strong preference for dephosphorylating phosphotyrosine residues

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over phosphothreonine residues. VHR has been identified as a novel regulator of extracellular regulated kinases (ERKs). VHR is responsible for the rapid inactivation of ERK following stimulation and for its repression in quiescent cells. VHR is a negative regulator of the Erk and Jnk pathways in T cells and; therefore; may play a role in aspects of T lymphocyte physiology that depend on these kinases.

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