

# Recombinant Human DUSP3/VHR Protein (His Tag)

Catalog Number:PKSH033476



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

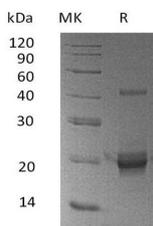
## Description

<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>	E.coli
<b>Sequence</b>	Ser2-Pro185
<b>Accession</b>	P51452
<b>Calculated Molecular Weight</b>	22.6 kDa
<b>Observed molecular weight</b>	18-22 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
<b>Reconstitution</b>	Not Applicable

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Human DUSP3 belongs to the dual specificity protein phosphatase subfamily. DUSPs are a heterogeneous group of protein phosphatases that can dephosphorylate both phosphotyrosine and phosphoserine/phosphothreonine residues within the one substrate. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. DUSPs are major modulators of critical signalling pathways that are dysregulated in various diseases. They negatively regulate members of the mitogen-activated protein kinase superfamily; which are associated with cellular proliferation and differentiation. DUSP3 is expressed in human tissues including breast and ovarian. DUSP3 shows activity both for tyrosine-protein phosphate and serine-protein phosphate; but displays a strong preference toward phosphotyrosines. Human DUSP3 specifically dephosphorylates and inactivates ERK1 and ERK2.

## For Research Use Only

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