Recombinant Human DUSP3/VHR Protein (His Tag)

Catalog Number: PKSH033476



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

Description		
Synonyms	Dual specificity protein phosphatase 3;DUSP3;Dual specificity protein phosphatase VHR;Vaccinia H1-related phosphatase;VHR	
Species	Human	
Expression Host	E.coli	
Sequence	Ser2-Pro185	
Accession	P51452	
Calculated Molecular Weight	22.6 kDa	
Observed molecular weight	18-22 kDa	
Tag	N-His	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Storage	Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.	
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at $< -20^{\circ}$ C.	
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.	
Reconstitution	Not Applicable	
Data		
kDa MK R		

kDa	MK	R
120	-	
90	1100	
60	Distants	
40		Received
30	-	
20	-	-
20		
14	-	
	62.23	L. C. F.F.

> 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.

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