

Recombinant Human DUSP3/VHR Protein (His Tag)

Catalog Number: PKSH033476

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

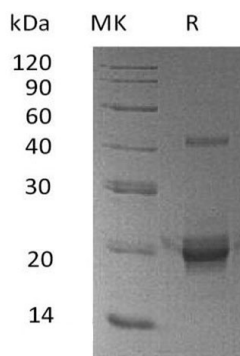
Description

Species	Human
Source	E.coli-derived Human DUSP3/VHR protein Ser2-Pro185, with an N-terminal His
Calculated MW	22.6 kDa
Observed MW	18-22 kDa
Accession	P51452
Bio-activity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Concentration	Subject to label value.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°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°C.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.

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.