Data Sheet (Cat.No.TMPJ-00996)

TargetMol

VHR Protein, Human, Recombinant (His)

General Information

Synonyms:	DUSP3;VHR;Dual specificity protein phosphatase VHR;Vaccinia H1-related phosphatase;Dual specificity protein phosphatase 3
Protein Construction:	Ser2-Pro185
Species:	Human
Expression Host:	E. coli
Accession:	P51452
Molecular Weight:	18-22 KDa (reducing condition)
AA Sequence:	Ser2-Pro185

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, pH 7.4.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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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