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Datasheet for ABIN7319414

Dual Specificity Phosphatase 3 (DUSP3) protein (His tag)

Overview

Quantity:	50 µg
Target:	Dual Specificity Phosphatase 3 (DUSP3)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag

Product Details

Purpose:	Recombinant Human DUSP3/VHR Protein (His Tag)
Sequence:	Ser2-Pro185
Characteristics:	Recombinant Human DUSP3 is produced by our E.coli expression system and the target gene encoding Ser2-Pro185 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Dual Specificity Phosphatase 3 (DUSP3)
Alternative Name:	DUSP3/VHR (DUSP3 Products)
Target Type:	Viral Protein
Background:	Background: Human DUSP3 belongs to the dual specificity protein phosphatase subfamily.

Target Details

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.

Synonym: Dual specificity protein phosphatase 3, DUSP3, Dual specificity protein phosphatase VHR, Vaccinia H1-related phosphatase, VHR

Molecular Weight:	22.6 kDa
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UniProt:	P51452
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Pathways:	Neurotrophin Signaling Pathway , Activation of Innate immune Response , Toll-Like Receptors Cascades
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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