Recombinant DUS5 protein (His tag)

Catalog Number	540379
Synonyms	Dual specificity protein phosphatase hVH3
Species	Human
Expression System	E. coli
Accession	Q16690
Molecular Weight	Predictes a molecular mass of 37.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-321
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1-321 aa (Q16690) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Dual specificity protein phosphatase 5 (DUSP5) fragment (residues 1-321) is a high-purity protein designed for functional studies. This fragment fully encompasses the Rhodanese and Tyrosine-protein phosphatase domains, making it an ideal tool for investigating domain-specific phosphatase activity, particularly towards ERK1. Dual specificity protein phosphatase 5 (DUSP5) is a human enzyme with dual specificity, active on phosphotyrosine, phosphoserine, and phosphothreonine residues. It exhibits highest relative activity toward ERK1, playing a key role in regulating MAP kinase signaling pathways. The protein is localized to the nucleus, suggesting its involvement in nuclear signaling events and potential roles in cellular processes such as stress response and proliferation.