Recombinant DUS26 protein (His tag)

Catalog Number	545834
Synonyms	Dual specificity phosphatase SKRP3; Low-molecular-mass dual-specificity phosphatase 4; DSP-4; LDP-4; Mitogen-activated protein kinase phosphatase 8; MAP kinase phosphatase 8; MKP-8; Novel amplified gene in thyroid anaplastic cancer
Species	Human
Expression System	E. coli
Accession	Q9BV47
Molecular Weight	Predictes a molecular mass of 20.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	41-211
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 41-211 aa (Q9BV47) 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 26 (DUSP26) fragment (residues 41-211) is a high-purity protein that encompasses the full Tyrosine-protein phosphatase domain. This fragment serves as an essential tool for investigating MAPK signaling regulation, phosphatase mechanisms, and cellular stress responses in experimental models. Dual specificity protein phosphatase 26 (DUSP26) is a key regulator of mitogen-activated protein kinase (MAPK) pathways, capable of inactivating MAPK1 and MAPK3 through dephosphorylation, which subsequently reduces heat shock factor protein 4 DNA-binding activity. It exhibits dual roles by both inhibiting MAP kinase p38 (thereby suppressing p38-mediated apoptosis in anaplastic thyroid cancer cells) and potentially activating p38 and c-Jun N-terminal kinase (JNK). DUSP26 is localized in the cytoplasm, nucleus, and Golgi apparatus, highlighting its involvement in diverse cellular compartments and processes such as stress response and cancer progression.