Recombinant DS13B protein (His tag)

Catalog Number	548480
Synonyms	Dual specificity phosphatase SKRP4; Testis- and skeletal-muscle-specific DSP
Species	Human
Expression System	E. coli
Accession	Q9UII6
Molecular Weight	Predictes a molecular mass of 23.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-198
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-198 aa (Q9UII6) 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 Dual specificity protein phosphatase 13B (DUSP13B) fragment (amino acids 1-198), encompassing the full Tyrosine-protein phosphatase domain. This high-purity protein is ideal for investigating the dephosphorylation of MAPK8/JNK and MAPK14/p38 in vitro, serving as a critical tool for kinase regulation studies. Dual specificity protein phosphatase 13B, encoded by the DUSP13B gene in Homo sapiens, is a phosphatase that dephosphorylates both phospho-seryl/threonyl and phospho-tyrosyl residues with similar specific activities. It selectively targets MAPK8/JNK and MAPK14/p38 in vitro but does not act on MAPK1/ERK2, highlighting its role in modulating stress-responsive MAPK signaling pathways. This protein is also known as testis- and skeletal-muscle-specific DSP, indicating potential tissue-specific functions in cellular signaling and homeostasis.