Recombinant STYL2 protein (His tag)

Catalog Number	548716
Synonyms	Inactive dual specificity phosphatase 27
Species	Human
Expression System	E. coli
Accession	Q5VZP5
Molecular Weight	Predictes a molecular mass of 27.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	57-286
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 57-286 aa (Q5VZP5) 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 STYXL2 Protein Fragment (57-286) - A high-purity recombinant protein fragment encompassing the tyrosine-protein phosphatase domain of Serine/threonine/tyrosine-interacting-like protein 2. This fragment provides researchers with a specialized tool for investigating the structural and functional properties of this inactive dual specificity phosphatase domain in cellular signaling pathways. Serine/threonine/tyrosine-interacting-like protein 2 (STYXL2), also known as inactive dual specificity phosphatase 27, plays a crucial role in myofiber maturation according to current research. The full-length protein localizes to the cytoplasm, specifically within myofibrils and sarcomeres, suggesting its involvement in muscle cell structure and function. While classified as a dual specificity phosphatase, STYXL2 appears to function in an inactive phosphatase capacity, potentially serving regulatory roles in cellular signaling pathways. The protein's presence in sarcomere structures indicates importance in muscle contraction machinery and cellular organization.