Recombinant PP2B2 protein (His tag)

Catalog Number	531133
Synonyms	Calmodulin-dependent calcineurin A2 subunit
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q27889
Gene ID	32624
Molecular Weight	Predictes a molecular mass of 48.91 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	75-484
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 75-484 aa (Q27889) 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	This product features a recombinant fragment of Serine/threonine-protein phosphatase 2B catalytic subunit 2 (EC 3.1.3.16) from Drosophila melanogaster, spanning residues 75-484. This fragment is optimized for stability and solubility, making it ideal for structural studies and biochemical assays targeting calcium-dependent phosphatase activity. The full-length Serine/threonine-protein phosphatase 2B catalytic subunit 2, encoded by the Pp2B-14D gene, functions as a calcium-dependent, calmodulin-stimulated protein phosphatase. It plays a critical role in calmodulin-mediated activation of calcineurin, contributing to calcium-signaling pathways essential for cellular processes. This catalytic subunit is implicated in key regulatory mechanisms, as supported by experimental evidence from scientific literature.