Recombinant RCAN2 protein (His tag)

Catalog Number	548954
Synonyms	Down syndrome candidate region 1-like 1; Myocyte-enriched calcineurin-interacting protein 2; MCIP2; Regulator of calcineurin 2; Thyroid hormone-responsive protein ZAKI-4
Species	Human
Expression System	E. coli
Accession	Q14206
Molecular Weight	Predictes a molecular mass of 23.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-197
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-197 aa (Q14206) 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 Calcipressin-2 (RCAN2) Fragment (1-197) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment, derived from the human Calcipressin-2 protein, retains key functional properties, including calcineurin inhibition, making it ideal for investigating regulatory mechanisms in cellular signaling and neurodevelopment. Calcipressin-2, encoded by the RCAN2 gene, functions as a critical inhibitor of calcineurin-dependent transcriptional responses by binding directly to the catalytic domain of calcineurin A. This regulatory role suggests its importance in modulating calcium-mediated signaling pathways, with potential implications during central nervous system development. The provided fragment (1-197) encompasses a stable, soluble region computationally optimized for experimental applications, enabling researchers to explore calcineurin interaction dynamics without the complexities of the full-length protein.