Recombinant CAYP2 protein (His tag)

Catalog Number	550232
Synonyms	Calcyphosine-2
Species	Human
Expression System	E. coli
Accession	Q9BXY5
Molecular Weight	Predictes a molecular mass of 33.03 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	267-538
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 267-538 aa (Q9BXY5) 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 Calcyphosin-2 (CAPS2) Fragment (267-538) is a high-purity protein designed to encompass the EF-hand 1, EF-hand 2, and EF-hand 3 domains, making it an ideal tool for studying calcium-binding mechanisms and domain-specific functions in cellular signaling pathways. Calcyphosin-2, encoded by the CAPS2 gene, is a human protein known for its role in calcium signaling, though specific functional details and subcellular localization are not fully characterized in the provided data. The EF-hand domains within this fragment are critical for calcium ion binding, suggesting involvement in calcium-mediated regulatory processes. This recombinant fragment enables targeted investigation into the structural and functional properties of these domains, supporting research on calcium-dependent cellular events.