Recombinant EFC4A protein (His tag)

Catalog Number	540743
Synonyms	Calcium release-activated calcium channel regulator 2B; CRAC channel regulator 2B; Calcium release-activated channel regulator 2B
Species	Human
Expression System	E. coli
Accession	Q8N4Y2
Molecular Weight	Predictes a molecular mass of 11.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-94
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 1-94 aa (Q8N4Y2) 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 EF-hand calcium-binding domain-containing protein 4A (CRACR2B) Fragment (residues 1-94). This high-purity fragment encompasses the EF-hand 1 domain, providing an essential tool for investigating calcium signaling mechanisms and store-operated Ca^{2+} entry (SOCE) in cellular research. The full-length CRACR2B protein, encoded by the CRACR2B gene, plays a critical role in store-operated Ca^{2+} entry (SOCE), a fundamental process regulating intracellular calcium homeostasis and signaling. This recombinant fragment allows focused study of the EF-hand 1 domain's contribution to calcium binding and regulatory functions within SOCE pathways, enabling targeted research into calcium-mediated cellular processes.