Recombinant RB40C protein (His tag)

Catalog Number	545754
Synonyms	Rar-like protein; Ras-like protein family member 8C; SOCS box-containing protein RAR3
Species	Human
Expression System	E. coli
Accession	Q96S21
Molecular Weight	Predictes a molecular mass of 27.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	1-228
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-228 aa (Q96S21) 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 RAB40C (1-228) Fragment is a high-purity protein designed for studying the SOCS box domain of Ras-related protein Rab-40C. This fragment serves as an essential tool for investigating ubiquitin ligase complex interactions, intracellular trafficking, and lipid metabolism regulation in cellular models. RAB40C is a small GTPase that functions as a substrate-recognition component of the ECS(RAB40C) E3 ubiquitin ligase complex, mediating ubiquitination and proteasomal degradation of target proteins like ANKRD28. It plays a critical role in regulating intracellular membrane trafficking, focal adhesion assembly during cell migration, and lipid droplet accumulation. The protein localizes to the cell membrane (cytoplasmic side), cytosol, and Golgi apparatus, with activity dependent on GTP-binding. Its involvement in key cellular processes makes it a significant target for research in protein degradation pathways and metabolic regulation.