Recombinant RASL3 protein (His tag)

Catalog Number	545362
Species	Human
Expression System	E. coli
Accession	Q86YV0
Molecular Weight	Predictes a molecular mass of 18.12 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	868-1011
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 868-1011 aa (Q86YV0) 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	Introducing the recombinant RASAL3 (868-1011) fragment, a high-quality protein derived from the human RAS protein activator like-3. This fragment is expertly engineered for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations into RAS signaling pathways. The full-length RASAL3 protein functions as a Ras GTPase-activating protein, playing a critical role in regulating RAS activity and the downstream ERK signaling pathway. It is particularly important in the expansion and function of natural killer T (NKT) cells in the liver, where it acts as a negative regulator. RASAL3 is localized in the cytoplasm and cell cortex, underscoring its involvement in intracellular signaling mechanisms. This recombinant fragment provides a focused approach to studying these essential cellular processes.