Recombinant SKAP1 protein (His tag)

Catalog Number	547650
Synonyms	Src family-associated phosphoprotein 1; Src kinase-associated phosphoprotein of 55 kDa; SKAP-55; pp55
Species	Human
Expression System	E. coli
Accession	Q86WV1
Molecular Weight	Predictes a molecular mass of 14.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	101-214
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 101-214 aa (Q86WV1) 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 SKAP1 Protein Fragment (residues 101-214) is a high-purity, functional fragment encompassing the full PH domain of Src kinase-associated phosphoprotein 1 (SKAP-55). This product is an essential tool for investigating the role of SKAP1 in T-cell receptor signaling, integrin clustering, and MAP kinase pathway activation, offering researchers a targeted reagent for domain-specific functional studies. Src kinase-associated phosphoprotein 1 (SKAP-55) is a key regulator in immune cell signaling, primarily expressed in T-cells and mast cells. It positively enhances T-cell receptor signaling by activating the MAP kinase pathway and is required for optimal conjugation between T-cells and antigen-presenting cells through promotion of integrin ITGAL clustering. Additionally, SKAP1 may contribute to high-affinity immunoglobulin epsilon receptor signaling in mast cells. The protein localizes to the cytoplasm, nucleus, and cell membrane, and upon T-cell stimulation, it translocates to lipid rafts at the membrane, underscoring its dynamic role in cellular communication and immune responses.