Recombinant SLAP1 protein (His tag)

Catalog Number	544908
Synonyms	Src-like-adapter protein 1; SLAP-1; hSLAP
Species	Human
Expression System	E. coli
Accession	Q13239
Molecular Weight	Predictes a molecular mass of 21.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-177
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 2-177 aa (Q13239) 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 Src-like-adapter protein 1 (SLAP-1) fragment (residues 2-177) is a high-purity protein designed for studying T-cell receptor signaling regulation. This fragment includes the complete SH3 and SH2 domains, making it an ideal tool for investigating domain-specific interactions and negative regulation mechanisms in immunological research. Src-like-adapter protein 1 (SLAP-1) is an adapter protein that negatively regulates T-cell receptor (TCR) signaling pathways. It inhibits TCR-induced activation of nuclear factor of activated T-cells and plays a crucial role in the negative regulation of T-cell positive selection and mitosis. The protein functions by linking signaling proteins such as ZAP70 with CBL, facilitating CBL-dependent degradation of signaling components. SLAP-1 is primarily localized in the cytoplasm and endosomes, where it colocalizes with endosomal structures, reflecting its involvement in intracellular signaling complexes and protein trafficking pathways.