Recombinant STAM1 protein (His tag)

Catalog Number	547871
Synonyms	STAM-1
Species	Human
Expression System	E. coli
Accession	Q92783
Molecular Weight	Predictes a molecular mass of 31.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	2-268
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 2-268 aa (Q92783) 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 STAM-1 (Signal transducing adapter molecule 1) fragment (residues 2-268) is a high-purity protein designed for studying cytokine and growth factor signaling pathways. This fragment fully encompasses the VHS and UIM functional domains, making it an ideal tool for investigating domain-specific interactions in intracellular signal transduction and receptor sorting mechanisms. Signal transducing adapter molecule 1 (STAM-1) is a key intracellular signaling protein involved in signal transduction mediated by cytokines and growth factors, including IL-2 and GM-CSF. It contributes to signaling pathways leading to DNA synthesis and MYC induction, and plays roles in T-cell development. STAM-1 functions as part of the ESCRT-0 complex with HGS, where it participates in down-regulating receptor tyrosine kinases through multivesicular body (MVB) sorting by recognizing ubiquitinated receptors for lysosomal trafficking. Additionally, STAM-1 has been implicated in Dengue virus entry. The protein localizes primarily to the cytoplasm and early endosome membranes, where it acts as a peripheral membrane protein on the cytoplasmic side, facilitating its role in membrane-associated signaling and sorting processes.