

Recombinant Human STAM1 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50931

Size: 10ug, 100ug

Protein Name: Signal transducing adapter molecule 1 (STAM-1)

Synonym: STAM, STAM1

UniProt ID: Q92783

UniProt Link: www.uniprot.org/uniprotkb/Q92783/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 540 AA

Molecular Weight: 59 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MPLFATNPFDQDVEKATSEMNTAEDWGLILDICDKVGQSRTGPKDCLRSIMRRVNHKDPHVAMQAL
TLLGACVSNCGKIFHLEVCSRDFASEVSNVLNKGHPKVCEKLKALMVEWTFDEFKNDPQLSLISAMIK
NLKEQGVTFFAIGSQAAEQAKASPALVAKDPGTVANKKEEEDLAKAIELSLKEQRQQSTTLSTLYPST
SSLLTNHQHEGRKVRAYDFEAAEDNELTFKAGEIITVLDDSDPNWWWKGETHQGIGLFPSNFVTADLT
AEPEDIKTEKKTQVFSDDVQVETIEPEPEPAFIDEDKMDQLLQMLQSTDPSDDQPDLPPELLHLEAMC
HQMGPLIDEKLEDIDRKHSELSENLVKVMEALSLYTKLMNEDPMYSMYAKLQNQPYYMQSSGVSGS
QVYAGPPPSGAYLVAGNAQMHLQSYSLPPEQLSSLSQAVVPPSANPALPSQQTQAAYPNTMVSS
VQGNTYPSQAPVYSPPPAATAAAATADVTLTYQNAGPNMPQVPNYNLTSSTLPQPGGSQQPPQPQQ
PYSQKALL

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Signal transducing adapter molecule 1 (STAM-1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Involved in intracellular signal transduction mediated by cytokines and growth factors. Upon IL-2 and GM-CSF stimulation, it plays a role in signaling leading to DNA synthesis and MYC induction. May also play a role in T-cell development. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with HGS (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as a sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes.; (Microbial infection) Plays an important role in Dengue virus entry.

Subcellular Localization: Cytoplasm . Early endosome membrane ; Peripheral membrane protein ; Cytoplasmic side .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.