Recombinant STAM2 protein (His tag)

Catalog Number	539580
Synonyms	STAM-2; Hrs-binding protein
Species	Human
Expression System	E. coli
Accession	O75886
Molecular Weight	Predictes a molecular mass of 30.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1-260
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 1-260 aa (O75886) 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-2 (1-260) Fragment: A high-purity protein tool designed for studying the VHS and UIM domains of Signal transducing adapter molecule 2, essential for cytokine-mediated signaling and endosomal sorting pathways. Signal transducing adapter molecule 2 (STAM-2) is a cytoplasmic protein localized to early endosome membranes, where it functions in intracellular signal transduction triggered by cytokines and growth factors such as IL-2 and GM-CSF. It contributes to DNA synthesis and MYC induction and plays a role in T-cell development. STAM-2 also forms part of the ESCRT-0 complex with HGS, facilitating the down-regulation of receptor tyrosine kinases by recognizing ubiquitinated receptors and directing them to multivesicular bodies for lysosomal sorting. The provided fragment (amino acids 1-260) includes the VHS and UIM domains, enabling focused investigation into these critical functional regions.