Recombinant SAM12 protein (His tag)

Catalog Number	551416
Synonyms	SAM domain-containing protein 12
Species	Human
Expression System	E. coli
Accession	Q8N8I0
Molecular Weight	Predictes a molecular mass of 17.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	71-201
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 71-201 aa (Q8N8I0) 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	This high-purity recombinant protein corresponds to amino acids 71-201 of human Sterile alpha motif domain-containing protein 12 (SAMD12). This 131-amino acid fragment is specifically designed to encompass the complete SAM domain (residues 77-143), providing an ideal tool for researchers to study the structure, interactions, and specific biological functions of this critical protein domain in vitro. Sterile alpha motif domain-containing protein 12 (SAMD12) is encoded by the SAMD12 gene in humans. The SAM (Sterile Alpha Motif) domain is a conserved protein-protein interaction module found in a wide variety of proteins involved in diverse cellular processes, including signal transduction, transcriptional regulation, and developmental pathways. While specific functional details and subcellular localization for the full-length SAMD12 protein are not fully characterized in the provided data, proteins containing SAM domains are often implicated in crucial biological mechanisms. This recombinant fragment allows focused investigation into the fundamental properties and partner interactions mediated by the SAM domain of SAMD12.