Recombinant SAMD9 protein (His tag)

Catalog Number	542827
Synonyms	SAM domain-containing protein 9
Species	Human
Expression System	E. coli
Accession	Q5K651
Molecular Weight	Predictes a molecular mass of 10.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-76
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-76 aa (Q5K651) 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 SAMD9 Protein (Fragment 1-76) is a high-purity, stable fragment of Sterile alpha motif domain-containing protein 9, designed for structural and biochemical studies. This 76-amino acid fragment represents a soluble and functionally relevant region of SAMD9, which plays a critical role in antiviral defense and inflammatory responses, making it an essential tool for researchers investigating innate immunity and cellular signaling pathways. The full-length Sterile alpha motif domain-containing protein 9 (SAMD9) is a double-stranded nucleic acid-binding protein that functions as a key antiviral factor by facilitating the formation of cytoplasmic antiviral granules. It is also implicated in the inflammatory response to tissue injury and the regulation of extra-osseous calcification, acting downstream of TNF-alpha signaling. Additionally, SAMD9 participates in the coordination of EGR1 regulation with RGL2 and may be involved in endosome fusion processes. The protein is localized predominantly in the cytoplasm, where it exerts its biological activities. This recombinant fragment (residues 1-76) was selected based on computational predictions to provide a stable and soluble unit for detailed mechanistic and structural analyses.