Recombinant MYSM1 protein (His tag)

Catalog Number	545173
Synonyms	2A-DUB; Myb-like, SWIRM and MPN domain-containing protein 1
Species	Human
Expression System	E. coli
Accession	Q5VVJ2
Molecular Weight	Predictes a molecular mass of 53.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 57 kDa band.

Product Information

Sequence Region	378-828
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 378-828 aa (Q5VVJ2) 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 Deubiquitinase MYSM1 (2A-DUB) Fragment (aa 378-828) is a high-purity protein designed for studying the MPN domain's role in deubiquitinase activity. This fragment is an essential tool for researchers investigating hematopoietic regulation, immune response modulation, and epigenetic mechanisms. Full-length MYSM1 is a metalloprotease with deubiquitinase activity that plays critical roles in hematopoietic stem cell function, blood cell production, and immune response regulation. It functions in both nuclear and cytoplasmic compartments, where it deubiquitinates histone H2A to derepress hematopoietic genes and removes Lys-63-linked polyubiquitins from signaling components like TRAF3, TRAF6, RIPK2, and STING1 to attenuate innate immunity and inflammation. The protein localizes primarily to the nucleus but translocates to the cytoplasm during bacterial infection, highlighting its dynamic role in cellular defense mechanisms.