Recombinant NOM1 protein (His tag)

Catalog Number	547409
Synonyms	SGD1 homolog
Species	Human
Expression System	E. coli
Accession	Q5C9Z4
Molecular Weight	Predictes a molecular mass of 31.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	352-610
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 352-610 aa (Q5C9Z4) 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 NOM1 (Nucleolar MIF4G domain-containing protein 1) Fragment (aa 352-610) is a high-purity protein designed for functional studies. This fragment fully encompasses the MIF4G domain, making it an ideal tool for investigating domain-specific interactions and mechanisms related to nucleolar targeting and protein phosphatase regulation. NOM1, or Nucleolar MIF4G domain-containing protein 1, plays a critical role in targeting the protein phosphatase PPP1CA to the nucleolus, as supported by experimental evidence (PubMed:17965019). The protein is localized specifically within the nucleus and nucleolus (PubMed:15715967, PubMed:17965019), highlighting its importance in nucleolar functions. This recombinant fragment enables focused research on the MIF4G domain's contribution to these processes, providing insights into cellular regulation and signaling pathways.