Recombinant OS9 protein (His tag)

Catalog Number	540262
Synonyms	Amplified in osteosarcoma 9
Species	Human
Expression System	E. coli
Accession	Q13438
Molecular Weight	Predictes a molecular mass of 28.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	41-278
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 41-278 aa (Q13438) 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 OS-9 Protein Fragment (aa 41-278) - A high-quality research tool containing the complete MRH domain for studying endoplasmic reticulum quality control mechanisms and protein degradation pathways. Protein OS-9 (Amplified in osteosarcoma 9) is a crucial lectin component of the HRD1 complex that functions in endoplasmic reticulum quality control and ER-associated degradation (ERAD). Located in the endoplasmic reticulum lumen, OS-9 specifically recognizes and binds improperly folded glycoproteins as well as hyperglycosylated proteins, retaining them in the ER and facilitating their transfer to the ubiquitination machinery for subsequent degradation. This protein plays a vital role in cellular protein quality control by targeting misfolded proteins such as TRPV4 and hyperglycosylated HSP90B1 for degradation, thereby maintaining proper cellular function and preventing the accumulation of defective proteins.