Recombinant RN138 protein (His tag)

Catalog Number	540869
Synonyms	Nemo-like kinase-associated RING finger protein; NLK-associated RING finger protein; hNARF; RING finger protein 138; RING-type E3 ubiquitin transferase RNF138
Species	Human
Expression System	E. coli
Accession	Q8WVD3
Molecular Weight	Predictes a molecular mass of 12.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	154-245
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 154-245 aa (Q8WVD3) 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 RNF138 (154-245) Fragment is a high-purity protein product encompassing the UIM (ubiquitin-interacting motif) domain of E3 ubiquitin-protein ligase RNF138. This fragment serves as an essential tool for investigating domain-specific functions in DNA damage response, homologous recombination, and ubiquitin-mediated signaling pathways. RNF138 is an E3 ubiquitin-protein ligase crucial for DNA damage response, where it promotes DNA resection and double-strand break repair via homologous recombination. It functions by ubiquitinating key repair proteins such as XRCC5/Ku80 and RBBP8/CtIP, thereby influencing repair pathway choice and efficiency. The protein localizes to chromosomes and DNA damage sites, mediated by its zinc fingers, and also participates in regulating Wnt/β-catenin signaling through interactions with NLK. The provided fragment containing the UIM domain enables focused study of ubiquitin-binding mechanisms central to these biological processes.