Recombinant FNIP2 protein (His tag)

Catalog Number	543788
Synonyms	FNIP1-like protein; O6-methylguanine-induced apoptosis 1 protein
Species	Human
Expression System	E. coli
Accession	Q9P278
Molecular Weight	Predictes a molecular mass of 20.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	942-1114
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 942-1114 aa (Q9P278) 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 FNIP2 Fragment (942-1114) – a high-purity, human-derived protein fragment encompassing the critical dDENN FNIP1/2-type domain. This product is an essential tool for investigating mTORC1 signaling, autophagy regulation, and HSP90 chaperone interactions in cellular response pathways. Folliculin-interacting protein 2 (FNIP2) is a multifunctional human protein that plays a central role in nutrient-sensing mechanisms by regulating the non-canonical mTORC1 signaling cascade. It forms part of the lysosomal folliculin complex (LFC) that controls the nuclear translocation of transcription factors TFEB and TFE3 in response to amino acid availability. Additionally, FNIP2 acts as a co-chaperone for HSP90AA1, modulating its ATPase activity to regulate client protein folding, and contributes to autophagy through ULK1-mediated phosphorylation. The protein localizes to both lysosome membranes and the cytoplasm, where it interacts with folliculin (FLCN) and Rag GTPases. The provided fragment (942-1114) contains the dDENN FNIP1/2-type domain, enabling focused study of these specific functional interactions.