Recombinant UBAC1 protein (His tag)

Catalog Number	548110
Synonyms	UBA domain-containing protein 1; Glialblastoma cell differentiation-related protein 1; Kip1 ubiquitination-promoting complex protein 2
Species	Human
Expression System	E. coli
Accession	Q9BSL1
Molecular Weight	Predictes a molecular mass of 28.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1-233
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-233 aa (Q9BSL1) 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 UBAC1 Fragment (1-233): A high-purity protein fragment encompassing the full Ubiquitin-like and UBA 1 domains, essential for studying ubiquitin-mediated proteasomal degradation pathways. Ideal for investigating the adapter role of UBAC1 in the KPC E3 ubiquitin ligase complex. UBAC1 is a non-catalytic component of the KPC complex, an E3 ubiquitin-protein ligase that mediates polyubiquitination and proteasomal degradation of key regulatory proteins. It facilitates the degradation of CDKN1B during the G1 cell cycle phase and promotes NFKB1 p105 precursor maturation, critically regulating NF-kappa-B signaling. UBAC1 acts as an adapter, transferring polyubiquitinated targets like those modified by RNF123/KPC1 to the 26S proteasome. The protein is localized in the cytoplasm, where it participates in these ubiquitination processes.