Recombinant CDN2B protein (His tag)

Catalog Number	546980
Synonyms	Multiple tumor suppressor 2; MTS-2; p14-INK4b; p15-INK4b; p15INK4B
Species	Human
Expression System	E. coli
Accession	P42772
Molecular Weight	Predictes a molecular mass of 16.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-138
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 1-138 aa (P42772) 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	This product is a recombinant fragment of human Cyclin-dependent kinase 4 inhibitor B (CDKN2B), also known as p15-INK4b, spanning amino acids 1-138. This fragment is designed to be a stable and soluble unit, ideal for structural studies and biochemical assays investigating its role as a potent CDK4/CDK6 inhibitor and mediator of cell cycle arrest. Cyclin-dependent kinase 4 inhibitor B (CDKN2B) is a key regulator of the cell cycle, functioning as a potent inhibitor of CDK4 and CDK6. It is recognized as a potential effector of TGF-beta-induced cell cycle arrest, highlighting its importance in cellular growth control and tumor suppression pathways. The protein is primarily localized in the cytoplasm but is also found in the nucleus, indicating its dynamic role in cell cycle regulation across cellular compartments.