

Recombinant Mouse Cyclin Dependent Kinase Inhibitor 1A (CDKN 1a), Transfected HEK293 Cell Lysate

Source

Species	Mouse
Accession Number	P39689
Gene Symbol	Cdkn1a
Expressed Region	Ser2-Pro159
Synonyms	Cyclin Dependent Kinase Inhibitor 1A, Cyclin-Dependent Kinase Inhibitor 1A (P21, Cip1), CDK-Interacting Protein 1, CDKN1, CAP20, MDA-6, CIP1, SDI1, WAF1, P21, Melanoma Differentiation Associated Protein 6, Melanoma Differentiation-Associated Protein 6, Wild-Type P53-Activated Fragment 1, CDK-Interaction Protein 1, DNA Synthesis Inhibitor, P21CIP1, MDA6, PIC1.

Preparation

Expression System	Human embryonic kidney 293 (HEK293) cells
Tag	C-terminal his-tag
Purity	Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80°C immediately. Protein concentration was determined by BCA kit (Thermo Scientific, Inc.) using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control.
Molecular Weight	Recombinant protein product has a calculated molecular mass of 18. The actual molecular weight may increase slightly due to the potential post-translational modifications (PTMs).

Protein Specifications

Format	Lyophilized powder
Formulation	Lyophilized from a 0.2 um filtered solution in PBS (pH 7.4) containing mammalian cell protease inhibitor cocktail
Concentration	Determined by BCA protein assay
Reconstitution	Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water.

Shipping

Ice packs. Including one vial of HEK293 cell lysate transfected with empty expression vector.

Storage/Stability

Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C. For long term storage, it is recommended to store desiccated below -20 °C in a manual defrost freezer. Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20 °C. For long term storage, it is recommended to make appropriate aliquots and store at -80 °C. Avoid repeated freeze-thaw cycles.

This product is furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.