

Product Information

p19INK4D, GST-tagged, human recombinant, expressed in *E. coli* cells

Catalog Number **SRP5107**
Storage Temperature -70°C

Synonyms: CDKN2D, p19, INK4D, p19-INK4D

Product Description

p19INK4D protein is associated with CDK6 in several hematopoietic cell lines. It has been demonstrated p19INK4D expression enhances cell survival under genotoxic conditions.¹ By using p19INK4D-overexpressing cells, it has been demonstrated p19INK4D expression correlates with the cellular resistance to UV treatment with increased DNA repair activity against UV-induced lesions. p19INK4D regulates the protein network that integrates DNA repair, apoptosis, and checkpoint mechanisms in order to maintain the genomic integrity.²

Recombinant, full-length, human p19INK4D was expressed in *E. coli* cells using an N-terminal GST tag. The gene accession number is NM_001800. Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, and 25% glycerol.

Molecular mass: ~44 kDa

Purity: 70–95% (SDS-PAGE, see Figure 1)

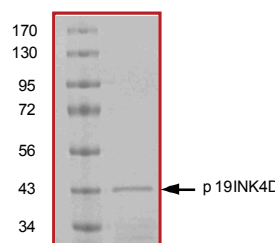
Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

The product ships on dry ice and storage at -70°C is recommended. After opening, aliquot into smaller quantities and store at -70°C . Avoid repeated handling and multiple freeze/thaw cycles.

Figure 1.
SDS-PAGE Gel of Typical Lot
70–95% (densitometry)



References

1. Guan, K.L. et al., Isolation and characterization of p19INK4d, a p16-related inhibitor specific to CDK6 and CDK4. *Mol Biol Cell.*, **7**(1), 57–70 (1996).
2. Julieta, M. et al., Induction of p19INK4d in response to ultraviolet light improves DNA repair and confers resistance to apoptosis in neuroblastoma cells. *Oncogene*, **24**, 4065–4080 (2005).

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