

## p19INK4d Protein, Human (His)

<b>Cat. No.:</b>	HY-P74659
<b>Synonyms:</b>	Cyclin-dependent kinase 4 inhibitor D; p19-INK4d; CDKN2D
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P55273 (D10-L166)
<b>Gene ID:</b>	1032
<b>Molecular Weight:</b>	Approximately 19 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           D R L S G A A A R G    D V Q E V R R L L H    R E L V H P D A L N    R F G K T A L Q V M            M F G S T A I A L E    L L K Q G A S P N V    Q D T S G T S P V H    D A A R T G F L D T            L K V L V E H G A D    V N V P D G T G A L    P I H L A V Q E G H    T A V V S F L A A E            S D L H R R D A R G    L T P L E L A L Q R    G A Q D L V D I L Q    G H M V A P L         </p>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant human p19INK4d at 10 µg/mL (100 µL/well) can bind biotinylated human CDK4. The ED <sub>50</sub> for this effect is 0.9121 µg/mL.
<b>Appearance</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	The p19INK4d protein serves as a potent inhibitor by interacting strongly with CDK4 and CDK6, effectively impeding their activity. Additionally, p19INK4d specifically interacts with CDK6, reinforcing its role as a regulator of cyclin-dependent kinase activity. Through these interactions, p19INK4d plays a crucial role in cell cycle regulation by restraining the function of CDK4 and CDK6, contributing to the modulation of key cellular processes.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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