

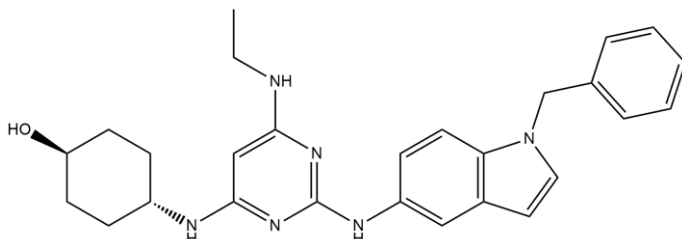
CINK4

10/19

ALTERNATE NAMES: trans-4-[[6-(Ethylamino)-2-[[1-(phenylmethyl)-1H-indol-5-yl]amino]-4-pyrimidinyl]amino]-cyclohexanol; 4-[[2-[[1-(benzylindol-5-yl)amino]-6-(ethylamino)pyrimidin-4-yl]amino]cyclohexan-1-ol; Cdk4/6 Inhibitor IV

CATALOG #: B2929-5 5 mg
B2929-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₇H₃₂N₆O

MOLECULAR WEIGHT: 456.58

CAS NUMBER: 359886-84-3

APPEARANCE: A crystalline solid

PURITY: 95%

SOLUBILITY: ~1 mg/ml in ethanol
~30 mg/ml in DMSO and DMF

DESCRIPTION: CINK4 is a triaminopyrimidine derivative that inhibits Cdk4/cyclin D1 and Cdk6/cyclin D1 activity with IC₅₀ values of 1.5 and 5.6 μM, respectively. It reduces retinoblastoma protein phosphorylation at Ser780 and Ser795 and induces cell cycle arrest in the G1 phase in U2OS and MRC-5 cells at 5-10 μM. Administration of CINK4 at 30 mg/kg, i.p. for 29 days, suppresses tumor growth in mice bearing human HCT116 colon carcinoma xenografts.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive.

REFERENCE: Soni, R., O'Reilly, T., Furet, P., et al. Selective *in vivo* and *in vitro* effects of a small molecule inhibitor of cyclin-dependent kinase 4. *Journal of the National Cancer Institute* 93(6), 436-446 (2001).

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Ribociclib (LEE011) (Cat. No. 9481)
Cdk4 Inhibitor (Cat. No. B2928)
Flavopiridol (Cat. No. 2090)
Rivociclib hydrochloride (Cat. No. B2567)
Dinaciclib (Cat. No. 9537)

DISCLAIMER: **FOR RESEARCH USE ONLY! Not to be used on humans.**