

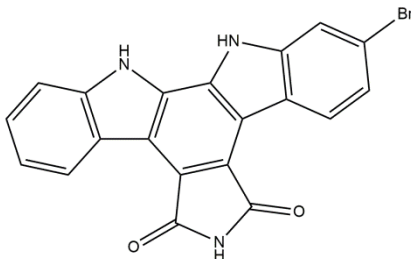
Cdk4 Inhibitor

10/19

ALTERNATE NAMES: 2-Bromo-12,13-dihydro-5H-indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione; K00024; Cyclin-dependent kinase 4 Inhibitor; 6-bromo-3,13,23-triazahexacyclo[14.7.0.0^{2,10}.0^{4,9}.0^{11,15}.0^{17,22}]tricoso-1,4(9),5,7,10,15,17,19,21-nonaene-12,14-dione

CATALOG #: B2928-5 5 mg
B2928-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₁₀BrN₃O₂

MOLECULAR WEIGHT: 404.22

CAS NUMBER: 546102-60-7

APPEARANCE: Solid

PURITY: 95%

SOLUBILITY: ~30 mg/ml in DMSO and DMF
~0.25 mg/ml in Ethanol

DESCRIPTION: Cdk4 Inhibitor is an indolocarbazole which is a potent, selective and ATP competitive cyclin D1/CDK4 inhibitor. It has an IC₅₀ value of 76 nM. It inhibits tumor cell growth, arrests tumor cells at the G1 phase, and inhibits pRb phosphorylation in HCT-116 and NCI-H460 cells with IC₅₀ < 3.0 μM.

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

REFERENCE: Zhu, G., Conner, S.E., Zhou, X., et al. Synthesis, structure-activity relationship, and biological studies of indolocarbazoles as potent cyclin D1-CDK4 inhibitors. *Journal of Medicinal Chemistry* 46(11), 2027-2030 (2003).

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

RELATED PRODUCTS:

Butyrolactone I (Cat. No. 1690)
 Flavopiridol (Cat. No. 2090)
 Dinaciclib (Cat. No. 9537)
 Riviciclib hydrochloride (Cat. No. B2567)
 Ribociclib (LEE011) (Cat. No. 9481)

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