Technical Data Sheet

Cdk4 Inhibitor

Catalog Number :5466072

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: Cyclin-dependent kinase 4 Inhibitor

Chemical Name: 6-bromo-3,13,23-triazahexacyclo[14.7.0.02,10.04,9.011,15.017,22]tricosa-1,4(9),5,7,10,15,17,19,21-nonaene-12,14-dione

Molecular Formula: $C_{20}H_{10}BrN_3O_2$

Molecular Weight: 404.2

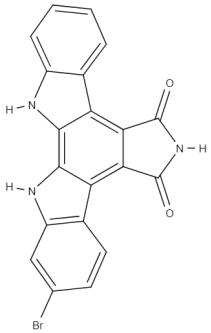
CAS Number: 546102-60-7

Purity: ≥90%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

Cdk4 Inhibitor is an indolocarbazole and potent inhibitor of cyclin D1/Cdk4. It induces G1 cell cycles arrest and inhibits the pRb phosphorylation in HCT-116 and NCI-H460 cells.

Preparation & Storage

Soluble in organic solvents such as DMF and DMSO . DMF up to 30mg/ml.

References

1.Zhu, G., Conner, S. E., Zhou, X., Shih, C., Li, T., Anderson, B. D., ... & Faul, M. M. (2003). Synthesis, structure− activity relationship, and biological studies of indolocarbazoles as potent cyclin D1-CDK4 inhibitors. Journal of medicinal chemistry, 46(11), 2027-2030. Sun, Y., Li, Y. X., Wu, H. J., Wu, S. H., Wang, Y. A., Luo, D. Z., & Liao, D. J. (2011). Effects of an indolocarbazole-derived CDK4 inhibitor on breast cancer cells. Journal of Cancer, 2, 36.

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