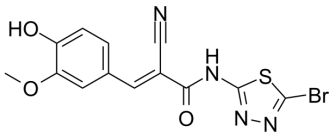
CK2 inhibitor 3

Cat. No.:	HY-143461
Molecular Formula:	$C_{13}H_9BrN_4O_3S$
Molecular Weight:	381.2
Target:	Casein Kinase
Pathway:	Cell Cycle/DNA Damage; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	CK2 inhibitor 3 is a potent CK2 inhibitor with IC_{50} value of 280 nM. CK2 inhibitor 3 inhibits endocellular CK2, significantly affects viability of tumour cells and shows remarkable selectivity on a panel of 320 kinases[1].
IC_{50} & Target	CK2 280 nM (IC_{50})
In Vitro	CK2 inhibitor 3 (compound 4) (0-50 μM; 24 hours) significantly reduces cell viability in a dose-dependent manner, and DC_{50} value is 12.80 μM[1]. CK2 inhibitor 3 (5 μM and 20 μM; 16 hours) decreases the CK2-dependent phospho-site Akt Ser129 level[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay

Cell Line:	Jurkat cells[1]
Concentration:	0 μM, 10 μM, 20 μM, 30 μM, 40 μM and 50 μM
Incubation Time:	24 hours
Result:	Significantly reduced cell viability in a dose-dependent manner, and DC_{50} value was 12.80 μM.

Western Blot Analysis

Cell Line:	Jurkat cells[1]
Concentration:	5 μM and 20 μM
Incubation Time:	16 hours
Result:	Decreased the CK2-dependent phospho-site Akt Ser129 level.

REFERENCES

[1]. Dalle Vedove A, Zonta F, Zanforlin E, et al. A novel class of selective CK2 inhibitors targeting its open hinge conformation. Eur J Med Chem. 2020;195:112267.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA