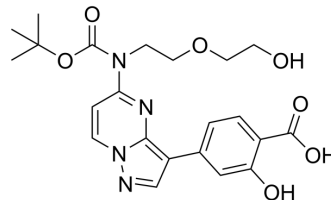


CK2-IN-3

Cat. No.:	HY-151382
Molecular Formula:	C ₂₂ H ₂₆ N ₄ O ₇
Molecular Weight:	458.46
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-IN-3 is a selective and potent CK2 inhibitor (K _d : 12 nM), with IC ₅₀ values of 1.51 μM (CK2α) and 7.64 μM (CK2α'). CK2-IN-3 can be used in the research of cancers ^[1] .	
IC₅₀ & Target	CK2α 1.51 μM (IC ₅₀)	CK2α' 7.64 μM (IC ₅₀)
In Vitro	CK2-IN-3 (compound 31, 1 nM-100 μM) inhibits CK2 activities in permeabilized cells, with IC ₅₀ values of 8 nM (CK2α) and 38 nM (CK2α') ^[1] . CK2-IN-3 (10 μM, 48 h) shows no significant cytotoxicity across 60 cancer cell lines ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Andreas Krämer, et al. Optimization of pyrazolo[1,5-a]pyrimidines lead to the identification of a highly selective casein kinase 2 inhibitor. Eur J Med Chem. 2020 Dec 15;208:112770.

Caution: Product has not been fully validated for medical applications. For research use only.

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