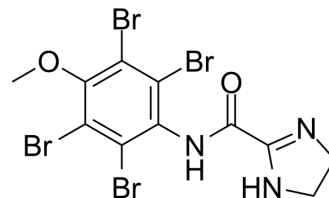


TMCB

Cat. No.:	HY-103384
CAS No.:	905105-89-7
Molecular Formula:	C ₁₁ H ₉ Br ₄ N ₃ O ₂
Molecular Weight:	534.82
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	TMCB is a selective, ATP-competitive CK2 (casein kinase II) inhibitor with distinct K _i values of 83 nM and 21 nM for the two different catalytic CK2 subunits α and α', respectively ^[1] .	
IC₅₀ & Target	CK2α 83 nM (K _i)	CK2α' 21 nM (K _i)
In Vitro	The inhibition of TMCB toward the purified CK2 holoenzyme CK2α ₂ β ₂ results in a K _i value of 10.1 nM. In addition, K _i values are determined with the surface displayed isoform CK2 holoenzymes and turned out to be of 31.1 nM for CK2α ₂ β ₂ and 19.6 nM for CK2α' ₂ β ₂ . The surface display of CKα and CKα', in the context of the corresponding holoenzymes, can be used to identify selective compounds ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Bollacke A, Nienberg C, Borgne ML, Jose J. Toward selective CK2α and CK2α' inhibitors: Development of a novel whole-cell kinase assay by Autodisplay of catalytic CK2α'. J Pharm Biomed Anal. 2016;121:253-260.

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

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