Product Data Sheet

KN-92

Cat. No.: HY-15517 CAS No.: 176708-42-2 Molecular Formula: $\mathsf{C}_{24}\mathsf{H}_{25}\mathsf{CIN}_2\mathsf{O}_3\mathsf{S}$

Molecular Weight: 456.98 Target: Others Pathway: Others

Please store the product under the recommended conditions in the Certificate of Storage:

Analysis.

BIOLOGICAL ACTIVITY

Description KN-92 is an inactive derivative of KN-93, without CaM kinase inhibitory activity. KN-92 is intended to be used as a control compound in studies designed to elucidate the antagonist activities of KN-93. KN-93 is a cell-permeable, reversible and

competitive CaMKII inhibitor^{[1][2]}.

In Vitro KN-93 (5-50 μM; 24 hours) inhibits LX-2 cell growth and KN-92 (5-50 μM; 24 hours) is ineffective in blocking cell growth^[2].

The analysis of cell cycle regulator expression reveals that KN-93 rather than KN-92 reduces the expression of p53 and p21^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[2]

Cell Line:	Human hepatic stellate cells (LX-2)
Concentration:	5-50 μΜ
Incubation Time:	24 hours
Result:	Ineffective in blocking cell growth.

CUSTOMER VALIDATION

- Cell Calcium. 2021 Oct 5;100:102483.
- J Mol Cell Cardiol. 2021 Nov 10;S0022-2828(21)00210-8.
- J Endocrinol. 2018 Mar;236(3):151-165.
- Nat Metab. 2020 Sep;2(9):918-933.

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REFERENCES

[1]. Smyth JT, et al. Inhibition of the inositol trisphosphate receptor of mouse eggs and A7r5 cells by KN-93 via a mechanism unrelated to Ca2+/calmodulin-dependent

protein kinase II antagonism. J Biol Chem. 2002;277(38):35061-35070.						
[2]. An P, et al. KN-93, a specific	inhibitor of CaMKII inhibits	human hepatic stellate cell prolif	eration in vitro. World J Gastroentero	1. 2007;13(9):1445-1448.		
	Tel: 609-228-6898	Fax: 609-228-5909	edical applications. For research on E-mail: tech@MedChemExpr			
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