

kb NB 142-70

Catalog No: tcsc1091



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

1233533-04-4

Formula:

$C_{11}H_9NO_2S_2$

Pathway:

Apoptosis

Target:

PKD

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 33 mg/mL (131.31 mM)

Observed Molecular Weight:

251.32

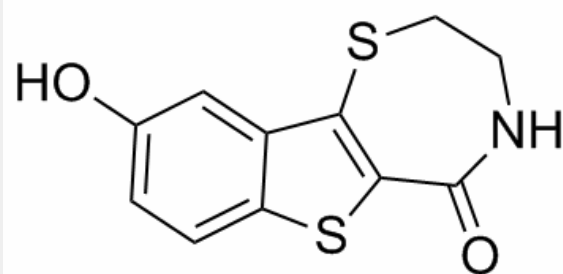
Product Description

kb NB 142-70 is a potent **PKD** inhibitor, with **IC₅₀**s of 28.3, 58.7 and 53.2 nM for PKD1, PKD2, and PKD3, respectively. kb NB 142-70 also has antitumor activity.

IC50 & Target: IC50: 28.3 nM (PKD1), 58.7 nM (PKD2), 53.2 nM (PKD3)^[1]

In Vitro: kb NB 142-70 is a potent PKD inhibitor, with IC₅₀s of 28.3, 58.7 and 53.2 nM for PKD1, PKD2, and PKD3, respectively. kb NB

142-70 also inhibits Ser⁹¹⁶ phosphorylation of PKD1 (IC₅₀, 2.2 ± 0.6 μM) in LNCaP cells. Moreover, kb NB 142-70 is cytotoxic against PC3 cells with an EC₅₀ of 8.025 μM^[1]. kb NB 142-70 (0-5 μM) concentration-dependently prevents ANG II-induced phosphorylation of HDAC4 at Ser²⁴⁶ and Ser⁶³², HDAC5 at Ser²⁵⁹ and Ser⁴⁹⁸, and HDAC7 at Ser¹⁵⁵ in IEC-18 cells. In addition, kb NB 142-70 (3.5 μM) also suppresses HDAC4, HDAC5, and HDAC7 phosphorylation in IEC-18 cells stimulated with ANG II for 0-240 min or with vasopressin, lysophosphatidic acid (LPA), or phorbol 12,13-dibutyrate (PDBu)^[2].



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