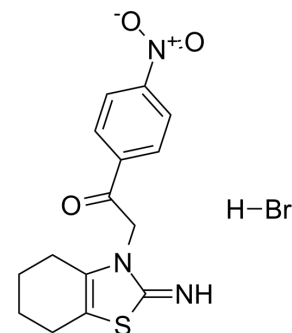


p-nitro-Pifithrin- α

Cat. No.:	HY-130437
CAS No.:	389850-21-9
Molecular Formula:	C ₁₅ H ₁₆ BrN ₃ O ₃ S
Molecular Weight:	398.27
Target:	MDM-2/p53; TGF- β Receptor; Caspase
Pathway:	Apoptosis; TGF-beta/Smad
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (2.51 mM; Need ultrasonic and warming)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5109 mL	12.5543 mL	25.1086 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

p-nitro-Pifithrin- α , a cell-permeable analog of pifithrin- α , is a potent p53 inhibitor. p-nitro-Pifithrin- α suppresses p53-mediated TGF- β 1 expression in HK-2 cells. p-nitro-Pifithrin- α inhibits the activation of caspase-3 by Zika virus (ZIKV) strains. p-nitro-Pifithrin- α attenuates steatosis and liver injury in mice fed a high-fat diet [4].non-alcoholic fatty liver disease^{[1][2][3]}.

IC₅₀ & Target

Caspase-3

REFERENCES

- [1]. Shimizu H, Yisireyili M, Nishijima F, Niwa T. Indoxyl sulfate enhances p53-TGF- β 1-Smad3 pathway in proximal tubular cells. *Am J Nephrol.* 2013;37(2):97-103.
- [2]. Zhang F, et al. Molecular signatures associated with ZIKV exposure in human cortical neural progenitors. *Nucleic Acids Res.* 2016 Oct 14;44(18):8610-8620.
- [3]. Derdak Z, et al. Inhibition of p53 attenuates steatosis and liver injury in a mouse model of non-alcoholic fatty liver disease. *J Hepatol.* 2013 Apr;58(4):785-91.

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

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