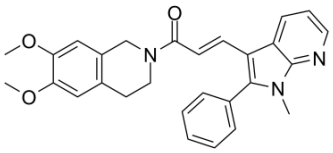
SIS3 free base

Cat. No.:	HY-100444
CAS No.:	1009104-85-1
Molecular Formula:	$C_{28}H_{27}N_3O_3$
Molecular Weight:	453.53
Target:	TGF-beta/Smad
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SIS3 free base is a potent and selective inhibitor of Smad3 phosphorylation. SIS3 free base inhibits the myofibroblast differentiation of fibroblasts by TGF-β1. SIS3 free base does not affect the phosphorylation of Smad2[1].
IC_{50} & Target	Smad3, ALK-5[1]
In Vitro	SIS3 free base attenuates the TGF-beta1-induced phosphorylation of Smad3 and interaction of Smad3 with Smad4[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis[1]

Cell Line:	Human dermal fibroblasts
Concentration:	0.3, 1, 3, 10 μM
Incubation Time:	For 1 hour
Result:	Attenuated the TGF-beta1-induced phosphorylation of Smad3 and interaction of Smad3 with Smad4.

CUSTOMER VALIDATION

- J ImmunoTher Cancer. 2020 Aug;8(2):e000422.
- Theranostics. 2021 May 13;11(14):7110-7125.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Jinnin M, et al. Characterization of SIS3, a novel specific inhibitor of Smad3, and its effect on transforming growth factor-beta1-induced extracellular matrix expression. Mol Pharmacol. 2006 Feb;69(2):597-607. Epub 2005 Nov 15.

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