## SIS3 free base

Cat. No.:	HY-100444		
CAS No.:	521985-36-4	4	
Molecular Formula:	C <sub>28</sub> H <sub>27</sub> N <sub>3</sub> O <sub>3</sub>		
Molecular Weight:	453.53		
Target:	TGF-beta/S	mad	
Pathway:	Stem Cell/V	Vnt; TGF-	beta/Smad
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

### SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	2.2049 mL	11.0246 mL	22.0493 mL
	5 mM	0.4410 mL	2.2049 mL	4.4099 mL	
		10 mM	0.2205 mL	1.1025 mL	2.2049 mL
	Please refer to the so	lubility information to select the app	propriate solvent.		

a potent and selective inhibitor of Smad3 phosphorylation. SIS3 free base inhibits the myofibroblast fibroblasts by TGF-β1. SIS3 free base does not affect the phosphorylation of Smad2 <sup>[1]</sup> .
fibroblasts by TGF-β1. SIS3 free base does not affect the phosphorylation of Smad2 <sup>[1]</sup> .
renuates the TGF-beta1-induced phosphorylation of Smad3 and interaction of Smad3 with Smad4 <sup>[1]</sup> . pendently confirmed the accuracy of these methods. They are for reference only. lysis <sup>[1]</sup> Human dermal fibroblasts 0.3, 1, 3, 10 μM
na

# Product Data Sheet



Incubation Time:	For 1 hour
Result:	Attenuated the TGF-beta1-induced phosphorylation of Smad3 and interaction of Smad with Smad4.

### **CUSTOMER VALIDATION**

- Brain Behav Immun. 2021 Mar 15;S0889-1591(21)00115-X.
- Nucleic Acids Res. 2023 Feb 2;gkad043.
- Cell Death Differ. 2021 Mar;28(3):1001-1012.
- Redox Biol. 2023 Jun, 102709.
- J ImmunoTher Cancer. 2020 Aug;8(2):e000422.

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#### 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.

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