

Box5 TFA

Cat. No.: HY-123071A Molecular Formula: $C_{32}H_{51}F_3N_6O_{15}S_2$

Molecular Weight: 880.9 Target: Wnt

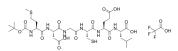
Stem Cell/Wnt Pathway:

Storage: Sealed storage, away from moisture and light, under nitrogen

> -80°C Powder 2 years -20°C 1 year

 * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

and light, under nitrogen)



Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 250 mg/mL (283.80 mM; Need ultrasonic) H₂O: 5 mg/mL (5.68 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.1352 mL	5.6760 mL	11.3520 mL
	5 mM	0.2270 mL	1.1352 mL	2.2704 mL
	10 mM	0.1135 mL	0.5676 mL	1.1352 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.26 mg/mL (3.70 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.36 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Box5 TFA is a potent Wnt5a antagonist. Box5 TFA inhibits Wnt5a signaling and inhibits Wnt5a-mediated Ca ²⁺ release. Box5 TFA inhibits cell migration. Box5 TFA has the potential for the research of melanoma ^[1] .			
IC ₅₀ & Target	Wnt5a ^[1]			
In Vitro	Box5 TFA (100 μ M) decreases the expression of rWnt5a (0.1 μ g/mL) stimulated p-MARCKS in A2058 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES				
		ived hexapeptide functions as a	potent antagonist of Wnt5a-dependent mela	noma cell invasion. Proc Natl Acad
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