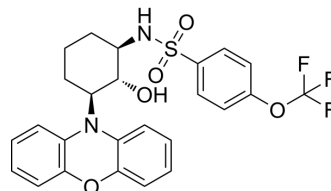


DT-061

Cat. No.:	HY-112929		
CAS No.:	1809427-19-7		
Molecular Formula:	C ₂₅ H ₂₃ F ₃ N ₂ O ₅ S		
Molecular Weight:	520.52		
Target:	Phosphatase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (240.14 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.9212 mL	9.6058 mL	19.2116 mL
5 mM	0.3842 mL	1.9212 mL	3.8423 mL
10 mM	0.1921 mL	0.9606 mL	1.9212 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (4.00 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (4.00 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (4.00 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DT-061 is an orally bioavailable activator of protein phosphatase 2A (PP2A) and could be applied in the therapy of KRAS-mutant and MYC-driven tumorigenesis^[1].

IC₅₀ & Target

PP2A^[1].

In Vivo

DT-061 (5 mg/kg, oral gavage, 4 weeks) shows single-agent activity in inhibiting H358 or H441 xenograft growth. Additionally, the combination of DT-061 and AZD6244 is more significantly efficient^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6- to 8-week-old male BALB/c nu/nu mice injected with H441 cells (5×10^6) ^[1] .
Dosage:	5 mg/kg.
Administration:	Oral gavage for 4 weeks.
Result:	Showed activity in inhibiting tumor growth.

CUSTOMER VALIDATION

- EMBO J. 2022 Jun 13;e110611.
- Mol Cancer Ther. 2021 Apr;20(4):676-690.
- J Biol Chem. 2020 Mar 27;295(13):4194-4211.
- PLoS One. 2022 May 26;17(5):e0268635.
- Biochem Biophys Res Commun. 2021 Mar 16;552:23-29.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Kauko O, et al. PP2A inhibition is a druggable MEK inhibitor resistance mechanism in KRAS-mutant lung cancer cells. Sci Transl Med. 2018 Jul 18;10(450). pii: eaaq1093.

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

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