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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

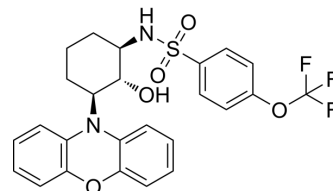
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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)					
	Preparing Stock Solutions	Solvent 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	1. 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					
	2. 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					
	3. 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] .
IC ₅₀ & 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.

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