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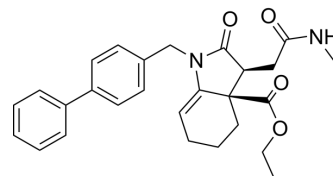
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Fumarate hydratase-IN-1

Cat. No.:	HY-100004
CAS No.:	1644060-37-6
Molecular Formula:	C ₂₇ H ₃₀ N ₂ O ₄
Molecular Weight:	446.54
Target:	Mitochondrial Metabolism
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (111.97 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2394 mL	11.1972 mL	22.3944 mL
		5 mM		0.4479 mL	2.2394 mL	4.4789 mL
		10 mM		0.2239 mL	1.1197 mL	2.2394 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: ≥ 2.5 mg/mL (5.60 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fumarate hydratase-IN-1 (compound 2) is a cell-permeable fumarate hydratase inhibitor. Fumarate hydratase-IN-1 has antiproliferative activity against several cancer cell lines with a mean IC ₅₀ of 2.2 μM ^[1] .
IC ₅₀ & Target	Fumarate hydratase ^[1]
In Vitro	Fumarate hydratase-IN-1 inhibits SW620, ACHN, HCT-116, PC3, and SK-MEL-28 cell lines with a mean IC ₅₀ of 2.2 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nature. 2023 Mar;615(7952):490-498.
- Nat Chem Biol. 2022 Jun 16.
- Small. 2023 Jan 12;e2207194.
- Pharmacol Res. 2023 Feb 14;106697.
- J Transl Med. 2023 Aug 18;21(1):553.

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REFERENCES

[1]. Takeuchi T et al. Identification of Fumarate Hydratase Inhibitors with Nutrient-Dependent Cytotoxicity. J Am Chem Soc, 2015 Jan 21, 137(2): 564-567.

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

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