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Produktinformation



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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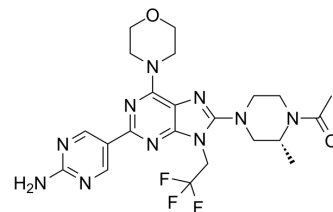
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DS-7423

Cat. No.:	HY-124036
CAS No.:	1222104-37-1
Molecular Formula:	C ₂₂ H ₂₇ F ₃ N ₁₀ O ₂
Molecular Weight:	520.51
Target:	PI3K; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (192.12 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.9212 mL	9.6060 mL	19.2119 mL
		5 mM		0.3842 mL	1.9212 mL	3.8424 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: ≥ 2.5 mg/mL (4.80 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.80 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	DS-7423 is a dual PI3K and mTOR inhibitor, with IC ₅₀ values of 15.6 nM, 34.9 nM for PI3Kα and mTOR, respectively. DS-7423 possesses anti-tumor activity ^{[1][2]} .
In Vitro	DS-7423 increases TP53 expression, the level of p-TP53 on Ser-46, and induced apoptosis related TP53 target genes (TP53AIP1 and PUMA) in OCCC cells^[1]. DS-7423 also inhibits other isoforms of class I PI3K (IC₅₀ values: PI3Kβ = 1,143 nM; PI3Kγ = 249 nM; PI3Kδ = 262 nM)^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Katsutoshi Oda, et al. Characterization of TP53 and PI3K signaling pathways as molecular targets in gynecologic malignancies. J Obstet Gynaecol Res. 2016 Jul;42(7):757-62.

[2]. Tomoko Kashiya, et al. Antitumor activity and induction of TP53-dependent apoptosis toward ovarian clear cell adenocarcinoma by the dual PI3K/mTOR inhibitor DS-7423. PLoS One. 2014 Feb 4;9(2):e87220.

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

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