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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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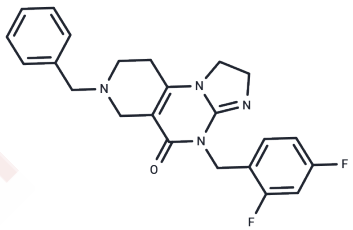
Data Sheet (Cat.No.T16392)

TargetMol

ONC206

Chemical Properties



CAS No. : 1638178-87-6

Formula: C23H22F2N4O

Molecular Weight: 408.44

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	ONC206, an analogue of the TRAIL inducer ONC201, acts as a selective antagonist of the D2-like dopamine receptors (DRD2/3/4) at nanomolar concentrations and possesses broad-spectrum anti-tumor activity.
Targets(IC50)	Dopamine Receptor
In vitro	ONC206 (Oncoceutics) is an imipiridone with nanomolar potency and analogue of ONC201, a selective dopamine receptor D2 (DRD2) antagonist currently being investigated in phase II clinical trials for serous endometrial cancer (SEC).??ONC206 inhibited cellular proliferation in a dose-dependent manner and was more potent than ONC201 in the ARK1 (IC50 = 0.33 M vs. IC50 = 1.59uM) and SPEC-2 (IC50 = 0.24uM vs. IC50 = 0.81uM) cell lines.?Treatment with ONC206 resulted in induction of ROS production and reduction of mitochondrial membrane potential, accompanied by an increase in cleaved caspase-3 and caspase-9 activity (p <?0.01).?ONC206 also significantly inhibited cellular adhesion and migration in both cell lines (p <?0.01).?Pretreatment with the stress inhibitor N-acetylcysteine (NAC) significantly attenuated the efficacy of ONC206 on cell proliferation, ROS production and cellular invasion.?ONC206 demonstrates nanomolar potency for the inhibition of proliferation in SEC cells[3].
In vivo	ONC206 (100 mg/kg; p.o.; every 10 days) reduces obviously tumor growth inhibition[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (244.83 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4483 mL	12.2417 mL	24.4834 mL
5 mM	0.4897 mL	2.4483 mL	4.8967 mL
10 mM	0.2448 mL	1.2242 mL	2.4483 mL
50 mM	0.049 mL	0.2448 mL	0.4897 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Wagner J, et al. Preclinical evaluation of the imipridone family, analogs of clinical stage anti-cancer small molecule ONC201, reveals potent anti-cancer effects of ONC212. Cell Cycle. 2017 Oct 2;16(19):1790-1799.