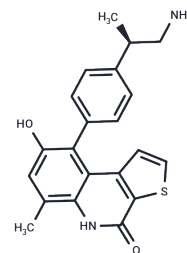


OTS514

Chemical Properties

CAS No. : 1338540-63-8
Formula: C₂₁H₂₀N₂O₂S
Molecular Weight: 364.46
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	OTS514 (OTS514 Hydrochloride) is a potent TOPK inhibitor. OTS514 exhibits a growth-suppressive effect on small cell lung cancer. OTS514 effectively suppressed the growth of SCLC cell lines (IC ₅₀ : 0.4 ~ 42.6 nM). Treatment with OTS514 suppressed forkhead box protein M1 (FOXO1) activity. OTS514 treatment reduced CD90-positive SCLC cells and showed a higher cytotoxic effect against lung sphere-derived CSC-like SCLC cells.
Targets(IC ₅₀)	Apoptosis, TOPK

Solubility Information

Solubility	DMSO: 90 mg/mL (246.94 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7438 mL	13.7189 mL	27.4379 mL
5 mM	0.5488 mL	2.7438 mL	5.4876 mL
10 mM	0.2744 mL	1.3719 mL	2.7438 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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

Ikeda Y, Park JH, Miyamoto T, Takamatsu N, Kato T, Iwasa A, Okabe S, Imai Y, Fujiwara K, Nakamura Y, Hasegawa K. T-LAK Cell-Originated Protein Kinase (TOPK) as a Prognostic Factor and a Potential Therapeutic Target in

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481