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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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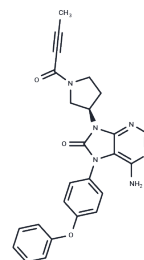
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Tirabrutinib

Chemical Properties

CAS No. :	1351636-18-4
Formula:	C ₂₅ H ₂₂ N ₆ O ₃
Molecular Weight:	454.48
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Tirabrutinib (GS-4059) (ONO-4059) is an orally active Bruton's Tyrosine Kinase (Btk) inhibitor (can cross the blood-brain barrier (BBB)), with an IC ₅₀ of 6.8 nM. Tirabrutinib irreversibly and covalently binds to Btk and inhibits aberrant B cell receptor signaling. Tirabrutinib can be used in studies of autoimmune diseases and hematological malignancies.
Targets(IC ₅₀)	TEC Family
In vitro	Tirabrutinib (0.1-1000 nM or 0.001-100 nM; 72 h) inhibits the proliferation of OCI-LY10 and SU-DHL-6 cells with IC ₅₀ s of 9.127 nM and 17.10 nM, respectively[1]. Tirabrutinib (0.5, 5, 50 μM; 24, 48 h) induces apoptosis in SU-DHL-6 cells, requiring high dosage and prolonged administration (up to 50 μM for 48 h)[1]. Tirabrutinib (300 nM, 72 h) induces caspase-3 and PARP cleavage in TMD8 cells[2].
In vivo	Tirabrutinib (10 mg/kg; p.o.; single) is rapidly absorbed into plasma and brain, reaching C _{max} (blood C _{max} = 339.53 ng/mL; brain C _{max} = 28.9 ng/mL) 2 hours post-administration[1]. Additionally, Tirabrutinib (6, 20 mg/kg; p.o.; single daily for 3 weeks) inhibits tumor growth in vivo[2].

Solubility Information

Solubility	DMSO: 90 mg/mL (198 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2003 mL	11.0016 mL	22.0032 mL
5 mM	0.4401 mL	2.2003 mL	4.4006 mL
10 mM	0.220 mL	1.1002 mL	2.2003 mL
50 mM	0.044 mL	0.220 mL	0.4401 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

Yu H, et al. Bruton's tyrosine kinase inhibitors in primary central nervous system lymphoma-evaluation of anti-tumor efficacy and brain distribution. Transl Cancer Res. 2021 May;10(5):1975-1983.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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