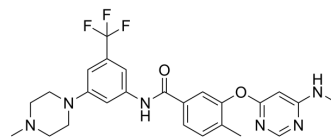


TL4-12

Cat. No.:	HY-123714
CAS No.:	1620820-12-3
Molecular Formula:	C ₂₅ H ₂₇ F ₃ N ₆ O ₂
Molecular Weight:	500.52
Target:	MAP4K; Apoptosis
Pathway:	MAPK/ERK Pathway; Apoptosis
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 8.33 mg/mL (16.64 mM); ultrasonic and warming and heat to 60°C

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9979 mL	9.9896 mL	19.9792 mL
	5 mM	0.3996 mL	1.9979 mL	3.9958 mL
	10 mM	0.1998 mL	0.9990 mL	1.9979 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

TL4-12 is a selective MAP4K2/GCK inhibitor, dose-dependently downregulates IKZF1 and BCL-6 and leads to MM cell proliferation inhibition (IC₅₀=37 nM) accompanied by induction of apoptosis. TL4-12 can be used to overcome immunomodulatory agent resistance in multiple myeloma (MM)^[1].

In Vitro

TL4 12 (0-5 μM; 4 days) shows antiproliferation activity with an IC₅₀ value of 37 nM for MM cells, and with IC₅₀s of 1.62, 3.7, 4.4, 5.7, 10, 32, 49, 19 μM for JJN3, MM1.S, H929, RPMI-8226, MOLP-8, SKMM2, LP-1, U266 cells, respectively^[1]. TL4-12 (0, 1, 3 μM; 24 h) dose-dependently decreases IKZF1, c-MYC, and BCL-6 protein expression and increases p53 level in K-RASG12A MM.1S cells^[1]. TL4-12 dose-dependently increases Annexin-V positive cell from 6% (dimethyl sulfoxide) to 13% (1 μM) and 22% (3 μM), respectively^[1]. TL4-12 induces apoptosis and cell-cycle arrest in the G0/G1 phase in MM.1S, RPMI-8226, RPMI-8226 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

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