Dubermatinib

Cat. No.:	HY-12963				
CAS No.:	1341200-45-0				
Molecular Formula:	C ₂₄ H ₃₀ ClN ₇ O ₂ S				
Molecular Weight:	516.06				
Target:	TAM Receptor; Apoptosis				
Pathway:	Protein Tyrosine Kinase/RTK; Apoptosis				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	1 year		
		-20°C	6 months		

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
Preparing Stock Solutions	1 mM	1.9378 mL	9.6888 mL	19.3776 mL			
		5 mM					
		10 mM					
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY				
Description	Dubermatinib (TP-0903) is a potent and selective Axl receptor tyrosine kinase inhibitor with an IC ₅₀ value of 27 nM.			
IC ₅₀ & Target	IC50: 27nM (Axl) ^[1]			
In Vitro	Dubermatinib (TP-0903) displays a potent activity against AXL with an IC ₅₀ of 0.027 μM. Dubermatinib (TP-0903) shows extremely potent activity in cell viability assays with an IC ₅₀ of 6 nM against the pancreatic cancer cell line PSN-1. Dubermatinib (TP-0903) is evaluated for its ability to block GAS6-mediated activation of AXL in pancreatic cancer cells. PSN- 1 cells are serum-starved and then stimulated with GAS6 in the presence of various concentrations of TP-0903 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

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PROTOCOL

Cell Assay ^[1]

For cell proliferation assays, 45 µL containing 1000 cells per well are seeded into solid white 384-well plates in appropriate media. The following day, Dubermatinib (TP-0903) is diluted in serum free growth media to 10x desired concentrations and 5 µL is added to each well. Combined compound and cells are incubated for 96 hours. Following incubation, 40 µL of ATP-Lite solution is added to each well, incubated for an additional 10 minutes at room temperature and luminescence is measured on an microplate reader^[1].

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CUSTOMER VALIDATION

- J Transl Med. 2023 Dec 8;21(1):890.
- Neurochem Res. 2021 Jan 2.
- Mol Pain. Jan-Dec 2020;16:1744806919900814.
- bioRxiv. 2023 May 31.
- Preprints. 2023 May 15.

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REFERENCES

[1]. Mollard A, et al. Design, Synthesis and Biological Evaluation of a Series of Novel Axl Kinase Inhibitors. ACS Med Chem Lett. 2011 Dec 8;2(12):907-912.

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

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