

Product Name: Trametinib DMSO solvate Revision Date: 01/10/2020

Product Data Sheet

.

Trametinib DMSO solvate

	- Jon		
Cat. No.:	A3887	H Support	
CAS No.:	1187431-43-1		
Formula:	C28H29FIN5O5S		
M.Wt:	693.53	N O	0
Synonyms:	GSK-1120212 DMSO		S
	solvate;Trametinib;JTP-74057;GSK-1120212;		
	GSK1120212;GSK 1120212;JTP	ŃH Ö Y	
	74057;JTP74057	F	
Target:	MAPK Signaling		
Pathway:	MEK1/2		Contra
Storage:	Store at -20°C	OE ENDOR	

Solvent & Solubility

	≥11.2mg/mL in DMS	\geq 11.2mg/mL in DMSO with ultrasonic and warming, <5.03mg/mL in H2O,insoluble in EtOH				
		Mass Solvent	1mg	5mg	10mg	
In Vitro	Preparing	Concentration				
	Stock Solutions	1 mM	1.4419 mL	7.2 <mark>0</mark> 95 mL	14.4190 mL	
	Parent Contraction	5 mM	0.2884 mL	1.4419 mL	2.8838 mL	
		10 mM	0.1442 mL	0.7209 mL	1.4419 mL	

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

Biological Activity

Shortsummary	Allosteric MEK1/MEK2 kir	Allosteric MEK1/MEK2 kinase inhibitor	
IC ₅₀ & Target	Et soor We Interes	A Protocolor Enter	
	Cell Viability Assay	and the second	
	Cell Line:	HT-29 and COLO205 cells	
In Vitro	Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher	
		concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in	
		the ultrasonic bath for a while. Stock solution can be stored below -20°C for	

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		several months.
	Reacting conditions:	0, 1, 10 and 100 nM; 0 ~ 4 days
	Applications:	Trametinib induced apoptosis both in HT-29 and COLO205 cells, but that
		COLO205 cells were more sensitive to Trametinib than HT-29 cells in terms of
		apoptosis induction.
	Animal experiment	B
	Animal models:	Female BALB/c-nu/nu mice inoculated subcutaneously with HT-29 or
		COLO205 cells
	Dosage form:	0.3 or 1 mg/kg; p.o.; q.d., for 14 days
	Applications:	Oral administration of Trametinib (0.3 or 1 mg/kg, q.d., for 14 days) was
		effective in inhibiting the HT-29 xenograft growth, and 1 mg/kg of Trametinib
n Vivo		almost completely blocked the tumor increase. In the COLO205 xenograft
		model, tumor regression was observed even at a dose of 0.3 mg/kg. At a
		dosage of 1 mg/kg, a complete regression was obtained in 4 out of 6 mice in
	10	which the tumor degenerated to the point that tumor volume was not
	Englished	measurable.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may
		slightly differ with the theoretical value. This is caused by an experimental
		system error and it is normal.

Product Citations

1. Lee PC, Fang YF, et al. "Targeting PKCδ as a Therapeutic Strategy against Heterogeneous Mechanisms of EGFR InhibitorResistance in EGFR-Mutant Lung Cancer." Cancer Cell. 2018 Dec 10;34(6):954-969.e4.PMID:30537515

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References

[1]. Yamaguchi T, Kakefuda R, Tajima N, Sowa Y, Sakai T. Antitumor activities of JTP-74057 (GSK1120212), a novel MEK1/2 inhibitor, on colorectal cancer cell lines in vitro and in vivo. Int J Oncol. 2011 Jul;39(1):23-31.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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