

Product Name: TAK-733 Revision Date: 01/10/2021 **Product Data Sheet**

TAK-733

Cat. No.:	B1621	0
CAS No.:	1035555-63-5	
Formula:	C17H15F2IN4O4	
M.Wt:	504.23	
Synonyms:		Y H
Target:	MAPK Signaling	F O
Pathway:	MEK1/2	HO _{II} ,
Storage:	Store at -20°C	
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Solvent & Solubility

	\geq 25.2 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O					
In Vitro	Preparing Stock Solutions	Mass Solvent Concentration	1mg	5mg	10mg	
		1 mM	1.9832 mL	9.9161 mL	19.8322 mL	
		5 mM	0.3966 mL	1.9832 mL	3.9664 mL	
		10 mM	0.1983 mL	0.9916 mL	1.9832 mL	

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

Biological Activity

Shortsummary	MEK allosteric site inhibite	Dr.
IC50 & Target	3.2 nM (MEK1)	
In Vitro	Cell Viability Assay	
	Cell Line:	Human cutaneous melanoma cell lines; Colorectal cancer (CRC) cell lines
	Preparation method:	The solubility of this compound in DMSO is >10 mM. 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 several months.
	Reacting conditions:	0.01-0.125 μM; 72h
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	Applications:	TAK-733 showed broad activity in most melanoma cell lines with relative			
		resistance observed at IC50 > 0.1 $\mu mol/L$ in vitro [1]. Moreover, Cell lines with a			
		BRAF or KRAS mutation were associated with sensitivity to TAK-733 with an			
		IC50 value of < 0.5µM [2].			
	Animal experiment	Animal experiment			
In Vivo	Animal models:	Mice bearing A375 human melanoma xenografts; patient-derived CRC xenograft models			
	Dosage form:	1, 3, 10, or 35 mg/kg; oral gavage; once daily for 2 weeks; or 10 mg/kg; oral gavage, once daily for 28 days.			
	Applications:	TAK-733 showed statistically significant tumor growth inhibition patient-derived xenograft models [1]. Moreover, TAK-733 induced tu growth inhibition and MEK pathway inhibition in patient-derived (xenografts [2].			
	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.			
	and a state of the	Oligan Contraction			

Product Citations

1. White SM, Avantaggiati ML, et al. "YAP/TAZ Inhibition Induces Metabolic and Signaling Rewiring Resulting in Targetable Vulnerabilities in NF2-Deficient Tumor Cells." Dev Cell. 2019 May 6;49(3):425-443.e9.PMID:31063758

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References



1. Micel, L. N., Tentler, J. J., Tan, A. C., Selby, H. M., Brunkow, K. L., Robertson, K. M., Davis, S. L., Klauck, P. J., Pitts, T. M., Gangolli, E., Fabrey, R., O'Connell, S. M., Vincent, P. W. and Eckhardt, S. G. (2015) Antitumor activity of the MEK inhibitor TAK-733 against melanoma cell lines and patient-derived tumor explants. Mol Cancer Ther. 14, 317-325

2. Lieu, C. H., Klauck, P. J., Henthorn, P. K., Tentler, J. J., Tan, A. C., Spreafico, A., Selby, H. M., Britt, B. C., Bagby, S. M., Arcaroli, J. J., Messersmith, W. A., Pitts, T. M. and Eckhardt, S. G. (2015) Antitumor activity of a potent MEK inhibitor, TAK-733, against colorectal cancer cell lines and patient derived xenografts. Oncotarget. 6, 34561-34572

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

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of the product, follow the storage recommendations on the product data sheet.





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