

Product Name: PRIMA-1MET Revision Date: 01/10/2021

Product Data Sheet

PRIMA-1MET

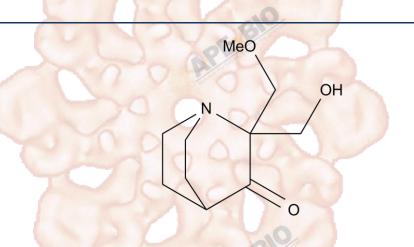
Cat. No.: A4484

CAS No.: 5291-32-7 **Formula:** C10H17NO3

M.Wt: 199.25Synonyms: APR-246Target: Apoptosis

Pathway: p53

Storage: Store at 4°C



Solvent & Solubility

 \geqslant 102 mg/mL in EtOH with ultrasonic; \geqslant 104.2 mg/mL in H2O; \geqslant 19.9 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	5.0188 mL	25.0941 mL	50.1882 mL
	5 mM	1.0038 mL	5.0188 mL	10.0376 mL
	10 mM	0.5019 mL	2.5094 mL	5.0188 mL

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

Biological Activity

Shortsummary	Restore mutant p53 activity, induce BAX and PUMA		
IC ₅₀ & Target			
	Cell Viability Assay		
	Cell Line:	Human myeloma cell lines(XG6, OPM2, JJN3)	
	Preparation method:	The solubility of this compound in DMSO is >10 mM. General tips for obtaining	
In Vitro		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:	72 h; LD50=~37 μM.	

	Applications:	PRIMA-1MET was tested using 3 HMCLs that expressed either a wild-type
		protein (XG6), or a TP53R175H mutant protein previously reported to be
		reactivated by PRIMA-1Met (OPM2), or no p53 protein (JJN3). PRIMA-1Met
		(LD50 value) did not induce p21 expression but did induce strong expression of
		Noxa in HMCLs, regardless of the p53 expression or status. Of note, the
	010	expression of p53 either mutated or wild-type, became undetectable after
	SE LOS BUTTON	PRIMA-1Met treatment. PRIMA-1Met induced apoptosis as revealed by the
	And the state of t	cleavage of caspases 2 and 3, and PARP.
	Animal experiment	
	Animal models:	Female SCID beige 7-week-old mice
	Dosage form:	8 mg/kg; intravenous injection
	Applications:	SCID-beige mice bearing JJN3 tumor cells received either no treatment
		(control), or PRIMA-1Met (18 mg/kg, intravenous injection), or BSO (10 mM,
		drinking water) or the combination of BSO and PRIMA-1Met. Treatments were
In Vivo	610	performed daily for 4 days, stopped for 2 days and performed again for another
	OE to the state of	4 days. Mice were then sacrificed at Day 16 because control and BSO-treated
	And a state of the	tumors exceeded the authorized tumor load. Body weight was not significantly
		affected by any treatments. PRIMA-1Met significantly impaired tumor growth
		(p<0.001) and its combination with BSO further inhibited tumor growth
		(p<0.05).
	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

See more customer validations on www.apexbt.com.

References

[1] Tessoulin B, Descamps G, Moreau P, et al. PRIMA-1Met induces myeloma cell death independently of p53 by impairing the GSH/ROS balance[J]. Blood, 2014.

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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