

Product Data Sheet

Obatoclax mesylate (GX15-070)

Cat. No.: A4194

CAS No.: 803712-79-0

Formula: C20H19N3O·CH4O3S

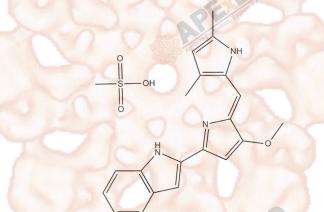
M.Wt: 413.5

Synonyms:

Target: Apoptosis

Pathway: Bcl-2 Family

Storage: Store at -20°C



Solvent & Solubility

≥20.7 mg/mL in DMSO, ≥3.15 mg/mL in EtOH with ultrasonic and warming,insoluble in H2O

		Mass	_			
		Solvent	1mg	5mg	10mg	
In Vitro	Preparing Stock Solutions	Concentration				
	Stock Solutions	1 mM	2.4184 mL	12.0919 mL	24.1838 mL	
		5 mM	0.4837 mL	2.4184 mL	4.8368 mL	
	-10	10 mM	0.2418 mL	1.2092 mL	2.4184 mL	

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

Biological Activity

Cel	22 µM (Ki) (Bcl-2) ell Viability Assay ell Line:		
	10:		
Cel	all Line:		
	eli Lilie.	UMSCC-22A cells stably expressing GFP-LC3	
In Vitro	reparation 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.	
Rea	eacting conditions:	200 nM, 48 hours	
	pplications:	After the treatment, cells were fixed in 4% paraformaldehyde and then stained	

		with Hoechst 33258. A confocal microscope was used to visualize GFP-LC3		
		punctate dots. Treatment of these cells for 24 or 48 h with obatoclax (100 or		
		200 nM) resulted in relocalization of the GFP-LC3 protein to punctate		
		cytoplasmic dots, an indicator of autophagosome formation. Treatment with		
		obatoclax resulted in an approximately 10-fold increase in the average number		
		of puncta per cell at 48 h as well as 24 h.		
	Animal experiment			
	Animal models:	Beige-nude-XID mice injected with SUDHL4 cells		
	Dosage form:	Intraperitoneal injection, 3.0 mg/kg		
	Applications:	Obatoclax (3.0 mg/kg) had little effect on tumor growth while carfilzomib (2.0		
		mg/kg) by itself significantly reduced tumor size. Combined treatment resulted		
		in minimal tumor growth, an effect significantly greater than that observed with		
In Vivo		either agent alone. IVIS imaging of luciferase-expressing tumor cells confirmed		
		the marked reduction in tumor growth with combined therapy. Kaplan-Meier		
	.0	analysis also demonstrated that that carfilzomib significantly increased the		
	S. Litteren	survival of obatoclax-treated mice.		
	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. Xiang XY, Kang JS, et al. "SIRT3 participates in glucose metabolism interruption andapoptosis induced by BH3 mimetic S1 in ovarian cancer cells." Int J Oncol. 2016Aug;49(2):773-84.PMID:27277143

See more customer validations on www.apexbt.com.

References

- [1] Yazbeck VY, Li C, Grandis JR, Zang Y, Johnson DE. Single-agent obatoclax (GX15-070) potently induces apoptosis and pro-survival autophagy in head and neck squamous cell carcinoma cells. Oral Oncol. 2014 Feb;50(2):120-7.
- [2] Dasmahapatra G, Lembersky D, Son MP, Patel H, Peterson D, Attkisson E, Fisher RI, Friedberg JW, Dent P, Grant S. Obatoclax interacts synergistically with the irreversible proteasome inhibitor carfilzomib in GC- and ABC-DLBCL cells in vitro and in vivo. Mol Cancer Ther. 2012 May;11(5):1122-32.

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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