

Product Name: MK-8245 Revision Date: 01/10/2021 Product Data Sheet

MK-8245

Cat. No.:	A4345	
CAS No.:	1 <mark>030</mark> 612-90-8	
Formula:	C17H16BrFN6O4	
M.Wt:	467.25	
Synonyms:		
Target:	Metabolism	
Pathway:	SCD	
Storage:	Store at -20°C	

Solvent & Solubility

	≥23.35 mg/mL in DM	≥23.35 mg/mL in DMSO; insoluble in EtOH; insoluble in H2O			
In Vitro	Preparing	Mass Solvent Concentration	1mg	5mg	10mg
	Stock Solutions	1 mM	2.1402 mL	10.7009 mL	21.4018 mL
	PEBIO	5 mM	0.4280 mL	2.1402 mL	4.2804 mL
		10 mM	0.2140 mL	1.0701 mL	2.1402 mL

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

Biological Activity

SCD inhibitor, potent and liver-selective

IC₅₀ & Target

In Vitro

1 nM (SCD1 (human)), 3 nM (SCD1 (rat)), 3 nM (SCD1 (mouse))

Cell Viability Assay	
Cell Line:	Rat hepatocytes
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:	< 200 nM
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	Applications:	In the rat hepatocyte assay which contains functional and active OATPs,		
		MK-8245 significantly inhibited SCD with an IC50 value of 68 nM.		
	Animal experiment			
In Vivo	Animal models:	eDIO mice		
	Dosage form:	3, 10 or 30 mg/kg; p.o.		
	Applications:	MK-8245, a liver-targeted small molecule SCD inhibitor, improved whole body insulin sensitivity.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility n		
		system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.



References

[1]. Oballa RM, Belair L, Black WC, Bleasby K, Chan CC, Desroches C, Du X, Gordon R, Guay J, Guiral S, Hafey MJ, Hamelin E, Huang Z, Kennedy B, Lachance N, Landry F, Li CS, Mancini J, Normandin D, Pocai A, Powell DA, Ramtohul YK, Skorey K, S?rensen D, Sturkenboom W, Styhler A, Waddleton DM, Wang H, Wong S, Xu L, Zhang L. Development of a liver-targeted stearoyl-CoA desaturase (SCD) inhibitor (MK-8245) to establish a therapeutic window for the treatment of diabetes and dyslipidemia. J Med Chem. 2011 Jul 28;54(14):5082-96.

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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