Product Data Sheet

Product Name: Oleyl Trifluoromethyl Ketone
Cat. No.: GC13963

Chemical Properties

Cas. No.	177987-23-4		
Chemical Name	1,1,1-trifluoro-10Z-nonadecen-2-one		
SMILES	CCCCCCCC/C=C\CCCCCCCC(=O)C(F)(F)F		
Formula	$C_{19}H_{33}F_3O$	M.Wt	334.5
Solubility	≤25mg/ml in DMSO;25mg/ml in dimethyl formamide	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Oleyl Trifluoromethyl Ketone		

Background

Oleyl Trifluoromethyl Ketone is a potent FAAH inhibitor [1][2].

Fatty acid amide hydrolase (FAAH) is a member of the serine hydrolase family of enzymes. FAAH is the principal catabolic enzyme for the fatty acid amides (FAAs) that hydrolyzes both oleamide and anandamide as well as several other fatty acid amides [2].

Oleyl Trifluoromethyl Ketone is an analog of oleic acid in which the COOH group is replaced by trifluoromethyl ketone. Oleyl Trifluoromethyl Ketone is a potent FAAH inhibitor in both human and rat. In transfected COS-7 cells, 10 μM oleyl trifluoromethyl ketone inhibited hydrolysis of oleamide by human and rat FAAH activities by 95.7% and 94.8%, respectively [2].

References:
[1]. Cravatt BF, Giang DK, Mayfield SP, et al. Molecular characterization of an enzyme

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that degrades neuromodulatory fatty-acid amides. Nature. 1996 Nov 7;384(6604):83-7. [2]. Giang DK, Cravatt BF. Molecular characterization of human and mouse fatty acid amide hydrolases. Proc Natl Acad Sci U S A. 1997 Mar 18;94(6):2238-42.

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