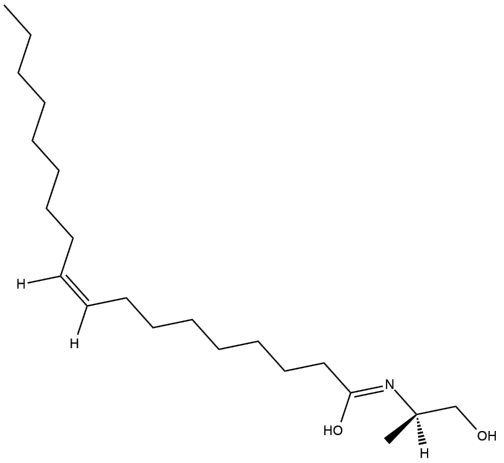
Product Data Sheet

Product Name: AM3102
Cat. No.: GC18365

Chemical Properties

Cas. No.	213182-22-0		
Chemical Name	N-[(1R)-2-hydroxy-1-methylethyl-9Z-octadecenamide		
SMILES	OC[C@@H](C)NC(CCCCCCC/C=C\CCCCCCCC)=O		
Formula	$C_{21}H_{41}NO_2$	M.Wt	339.6
Solubility	DMF: 25 mg/ml,DMSO: 20 mg/ml,Ethanol: 5 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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



Background

Oleoyl ethanolamide (OEA) is an endogenous agonist for proliferator-activated receptor α (PPARα) that suppresses food intake, promotes lipolysis, and reduces weight gain in rodents. The biological effects of OEA are terminated by fatty-acid amide hydrolase and N-acylethanolamine-hydrolyzing acid amidase. AM3102 is an OEA analog that stimulates PPARα transcriptional activity with an EC50

value of 100 nM and prolongs feeding latency in rodents with an ED50 value of 2.4 mg/kg. It is resistant to enzymatic hydrolysis and is as potent as OEA in enhancing transcriptional activity of PPARα and reducing food intake in free-feeding rats. AM3102 demonstrates weak affinity for the central cannabinoid (CB1) and peripheral cannabinoid (CB2) receptors with Ki values of 33 and 26 uM, respectively.

Caution: Product has not been fully validated for medical applications. For research use only.
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