

## 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(CCCCCC/C=C\CCCCCCCC)=O

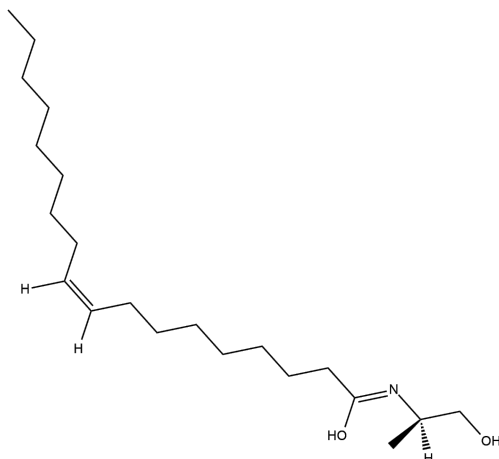
Formula  $C_{21}H_{41}NO_2$  M.Wt 339.6

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  $\alpha$  (PPAR $\alpha$ ) 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-acyl ethanolamine-hydrolyzing acid amidase. AM3102 is an OEA analog that stimulates PPAR $\alpha$  transcriptional activity with an EC50

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

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value of 100 nM and prolongs feeding latency in rodents with an ED<sub>50</sub> value of 2.4 mg/kg. It is resistant to enzymatic hydrolysis and is as potent as OEA in enhancing transcriptional activity of PPAR $\alpha$  and reducing food intake in free-feeding rats. AM3102 demonstrates weak affinity for the central cannabinoid (CB<sub>1</sub>) and peripheral cannabinoid (CB<sub>2</sub>) receptors with K<sub>i</sub> values of 33 and 26  $\mu$ M, respectively.

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