

AM-3102

Chemical Properties

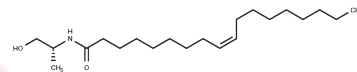
CAS No. : 213182-22-0

Formula: C₂₁H₄₁NO₂

Molecular Weight: 339.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|---|
| Description | AM-3102 is an OEA analog that stimulates PPAR α transcriptional activity and prolongs feeding latency. It is resistant to enzymatic hydrolysis and is as potent as OEA in enhancing transcriptional activity of PPAR α and reducing food intake in free-feeding rats. AM3102 demonstrates weak affinity for the central cannabinoid (CB1) and peripheral cannabinoid (CB2) receptors. |
| Targets(IC50) | Others,PPAR |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.945 mL | 14.7249 mL | 29.4499 mL |
| 5 mM | 0.589 mL | 2.945 mL | 5.890 mL |
| 10 mM | 0.2945 mL | 1.4725 mL | 2.945 mL |
| 50 mM | 0.0589 mL | 0.2945 mL | 0.589 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Orio L, Alen F, Pavón FJ, Serrano A, García-Bueno B. Oleoylethanolamide, Neuroinflammation, and Alcohol Abuse. *Front Mol Neurosci*. 2019 Jan 9;11:490. doi: 10.3389/fnmol.2018.00490. eCollection 2018. Review. PubMed PMID: 30687006; PubMed Central PMCID: PMC6333756.

Bowen KJ, Kris-Etherton PM, Shearer GC, West SG, Reddivari L, Jones PJH. Oleic acid-derived oleoylethanolamide: A nutritional science perspective. *Prog Lipid Res*. 2017 Jul;67:1-15. doi: 10.1016/j.plipres.2017.04.001. Epub 2017 Apr 5. Review. PubMed PMID: 28389247.

Brown JD, Karimian Azari E, Ayala JE. Oleoylethanolamide: A fat ally in the fight against obesity. *Physiol Behav*. 2017 Jul 1;176:50-58. doi: 10.1016/j.physbeh.2017.02.034. Epub 2017 Feb 27. Review. PubMed PMID: 28254531.

Zhou H, Yang WS, Li Y, Ren T, Peng L, Guo H, Liu JF, Zhou Y, Zhao Y, Yang LC, Jin X. Oleoylethanolamide attenuates apoptosis by inhibiting the TLR4/NF- κ B and ERK1/2 signaling pathways in mice with acute ischemic stroke.

Naunyn Schmiedebergs Arch Pharmacol. 2017 Jan;390(1):77-84. doi: 10.1007/s00210-016-1309-4. Epub 2016 Oct 13. PubMed PMID: 27738712.

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