

Product Data Sheet

Product Name: Oleyl Anilide

Cat. No.: GC44505

Chemical Properties

Cas. No. 5429-85-6

SMILES CCCCCCCC/C=C\CCCCCCCC(=O)Nc1ccccc1

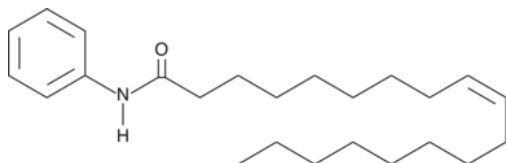
Formula C₂₄H₃₉NO M.Wt 357.6

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, Ethanol: 30 mg/ml
Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

AcylCoA:cholesterol acyltransferase (ACAT) is an intracellular cholesteryl ester synthase tied closely to the absorption of dietary cholesterol. Oleyl anilide (OA) is a weak inhibitor of acylCoA:cholesterol acyltransferase (ACAT) with an IC₅₀ of 26 µM. OA and the related glyceride dioleoyl phenylamino propane 1,2-diol have been linked to a syndrome of eosinophilia, excessive T-cell activation, and elevated interleukin-4 (IL-4), soluble IL-2R, and IL-5. The clinical consequences are an acute pulmonary inflammatory reaction followed by chronic neuropathy, myalgia, and autoimmune connective tissue disease, generally referred to as toxic oil syndrome (TOS). Aniline-denatured cooking oil is a source of OA associated with TOS.

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

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