

Product Name: ONO 2506

Catalog No.: 4530

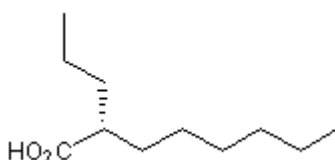
Batch No.: 2

CAS Number: 185517-21-9

IUPAC Name: (2*R*)-2-Propyloctanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₂₂O₂
Batch Molecular Weight: 186.29
Physical Appearance: Pale yellow oil
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Ethyl acetate:Petroleum ether [1:1])
Chiral HPLC: Shows >98.8% purity
GC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: (2R)-2-Propyloctanoic acid

Description:

Inhibits S100B synthesis in activated cultured astrocytes. Prevents delayed infarct expansion 24 hours after permanent middle cerebral artery occlusion (pMCAO) in rats; also exhibits neuroprotective effects in mouse models of Parkinson's disease and Alzheimer's disease.

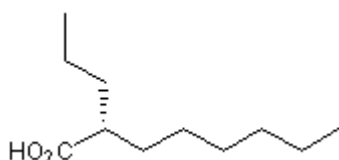
Physical and Chemical Properties:

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Batch Molecular Weight: 186.29

Physical Appearance: Pale yellow oil

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Tateishi et al (2002) Astrocytic activation and delayed infarct expansion after permanent focal ischemia in rats. Part II: suppression of astrocytic activation by a novel agent (R)-(-)-2-propyloctanoic acid (ONO-2506) leads to mitigation of delayed infarct expansion and early improvement of neurologic deficits. *J.Cereb.Blood Flow Metab.* **22** 723. PMID: 12045671.

Kato et al (2004) Arundic acid, an astrocyte-modulating agent, protects dopaminergic neurons against MPTP neurotoxicity in mice. *Brain Res.* **1030** 66. PMID: 15567338.

Mori et al (2006) Arundic acid ameliorates cerebral amyloidosis and gliosis in Alzheimer transgenic mice. *J.Pharmacol.Exp.Ther.* **318** 571. PMID: 16709678.

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