

## Certificate of Analysis

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**Product Name:** ONO 2506

**Catalog No.:** 4530

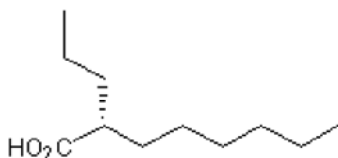
**Batch No.:** 2

CAS Number: 185517-21-9

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>11</sub> H <sub>22</sub> O <sub>2</sub>
<b>Batch Molecular Weight:</b>	186.29
<b>Physical Appearance:</b>	Pale yellow oil
<b>Solubility:</b>	DMSO to 100 mM ethanol to 100 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.6 (Ethyl acetate:Petroleum ether [1:1])
<b>Chiral HPLC:</b>	Shows >98.8% purity
<b>GC:</b>	Shows >99% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

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

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CAS Number: 185517-21-9

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

**Description:**

ONO 2506 inhibits S-100 $\beta$  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.

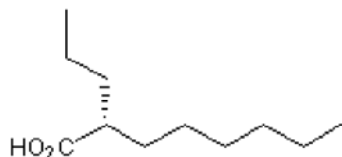
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>11</sub>H<sub>22</sub>O<sub>2</sub>

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

This product is supplied as a lyophilized oil and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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:**

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

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

**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 J.Cereb.Blood Flow Metab. **22** 723. PMID: 12045671.

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