Product Name: O-2093
Catalog No.: 1446
Batch No.: 1

CAS Number: 439080-01-0
IUPAC Name: \(N\)-(bis-3-chloro-4-hydroxybenzyl)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \(C_{34}H_{43}Cl_2NO_3\)
Batch Molecular Weight: 584.62
Physical Appearance: Colourless liquid
Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage: Desiccate at -20°C

2. ANALYTICAL DATA

TLC: \(R_f = 0.3\) (Ethyl acetate:Petroleum ether [2:3])
Melting Point: Between 73 - 75°C
HPLC: Shows >99.2% purity
\(^1\)H NMR: Consistent with structure
\(^{13}\)C NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.85</td>
<td>69.96</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.41</td>
<td>7.5</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>2.4</td>
<td>2.42</td>
</tr>
</tbody>
</table>
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Description:
Inhibitor of anandamide uptake (IC\textsubscript{50} = 17.3 μM) with little or no activity at CB\textsubscript{1}, CB\textsubscript{2}, TRPV1 and FAAH. Intravenous administration inhibits limb spasticity in mice with chronic relapsing experimental allergic encephalomyelitis (CREAE).

Physical and Chemical Properties:
Batch Molecular Formula: C\textsubscript{34}H\textsubscript{43}Cl\textsubscript{2}NO\textsubscript{3}
Batch Molecular Weight: 584.62
Physical Appearance: Colourless liquid

Storage: Desiccate at -20°C
CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:
Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
This product is supplied dissolved in anhydrous ethanol at a concentration of 5mg/ml

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:

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