Product Name: VDM 11
Catalog No.: 1392
Batch No.: 3
CAS Number: 313998-81-1
IUPAC Name: (5Z,8Z,11Z,14Z)-N-(4-Hydroxy-2-methylphenyl)-5,8,11,14-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{27}\text{H}_{39}\text{NO}_2 \)
Batch Molecular Weight: 409.61
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: 
\( R_f = 0.6 \) (Dichloromethane:Methanol [95:5])
HPLC: Shows >98.5% purity
\(^1\)H NMR: Consistent with structure
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Description:
A potent and selective inhibitor of the anandamide membrane transporter (AMT) with IC₅₀ values of 4-11 μM. Displays negligible agonist activity at the hVR1 receptor and very weak action at CB₁ and CB₂ receptors. Kᵣ values are > 5-10 μM at CB₁ and CB₂. Active in vivo. Also available in water-soluble emulsion (Cat. No. 1686).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₇H₃₉NO₂
Batch Molecular Weight: 409.61
Physical Appearance: Colourless liquid
Minimum Purity: >98%

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: