Product Name: Anandamide-d₄
Catalog No.: 3717
Batch No.: 1
CAS Number: 946524-40-9
IUPAC Name: N-(2-Hydroxyethyl-1,1,2,2-d₄)-5Z,8Z,11Z,14Z-eicosatetraenamide

1. PHYSICAL AND CHEMICAL PROPERTIES

- Batch Molecular Formula: C₂₂H₃₃D₄NO₂
- Batch Molecular Weight: 351.56
- Physical Appearance: Pale yellow oil
- Solubility: Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
- Storage: Store at -20°C

2. ANALYTICAL DATA

- TLC: Rᵣ = 0.4 (Dichloromethane:Methanol [95:5])
- HPLC: Shows 100% purity
- ¹H NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
Product Information

Product Name: Anandamide-d4
Catalog No.: 3717
Batch No.: 1

CAS Number: 946524-40-9
IUPAC Name: \(N\)-(2-Hydroxyethyl-1,1,2,2-d\(_4\))-5Z,8Z,11Z,14Z-eicosatetraenamide

Description:
Deuterated anandamide. Used as an internal standard for the quantification of AEA by GC- or LC-mass spectrometry. Anandamide also available.

Physical and Chemical Properties:
Batch Molecular Formula: \(C_{22}H_{33}D_4\)NO
Batch Molecular Weight: 351.56
Physical Appearance: Pale yellow oil
Minimum Purity: ≥98%

Storage: Store 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 aliquotted 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.

Other Information:
Isotopic purity is 99.2% D