

Certificate of Analysis

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Product Name: CU CPT 22

Catalog No.: 4884

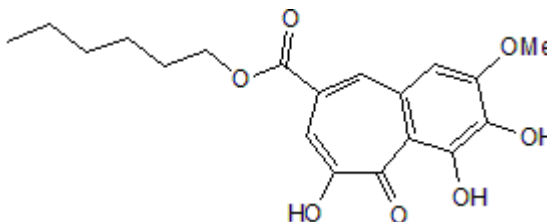
Batch No.: 1

CAS Number: 1416324-85-0

IUPAC Name: 3,4,6-Trihydroxy-2-methoxy-5-oxo-5H-benzocycloheptene-8-carboxylic acid hexyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₂O₇·H₂O
Batch Molecular Weight: 380.39
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
ethanol to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Dichloromethane:Methanol [97:3])
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.99	6.36	
Found	59.79	6.43	0.05

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

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Description:

Selective toll-like receptor 1/2 (TLR1/2) inhibitor (IC₅₀ = 0.58 μM). Exhibits no activity at TLR2/TLR6, TLR3, TLR4 and TLR7 or a panel of 10 representative kinases. Inhibits the release of proinflammatory cytokines TNF-α and IL-1β.

Physical and Chemical Properties:

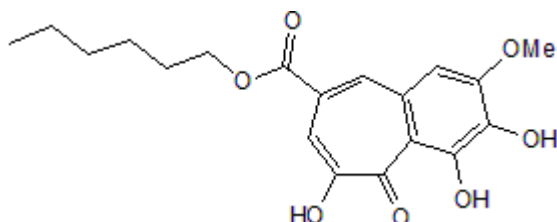
Batch Molecular Formula: C₁₉H₂₂O₇·H₂O

Batch Molecular Weight: 380.39

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:



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:

DMSO to 100 mM

ethanol to 50 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:

Cheng et al (2012) Discovery of small-molecule inhibitors of the TLR1/TLR2 complex. *Angew Chem.Int.Ed.Engl.* **51** 12246. PMID: 22969053.

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