

CU CPT 22

Catalog No: tcsc0028870



Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

1416324-85-0

Formula:

$C_{19}H_{22}O_7$

Pathway:

Immunology/Inflammation

Target:

Toll-like Receptor (TLR)

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 125 mg/mL (344.95 mM)

Observed Molecular Weight:

362.37

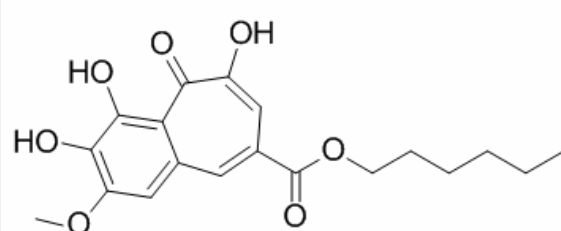
Product Description

CU CPT 22 is a toll-like receptor 1 and 2 (**TLR1/2**) inhibitor with an **IC₅₀** of 0.58 μ M.

IC50 & Target: IC50: 0.58 μ M (TLR1/2)^[1]

In Vitro:

CU CPT 22 is a toll-like receptor 1 and 2 (TLR1/2) inhibitor with an IC_{50} of $0.58 \pm 0.09 \mu M$. It is demonstrated that CU CPT 22 is able to compete with Pam₃CSK₄ for binding to TLR1/2 with an inhibition constant (K_i) of $0.41 \pm 0.07 \mu M$, which is consistent with its potency observed in the whole cell assay. Increasing the concentration of CU CPT 22 to $6 \mu M$ decreases the anisotropy to background levels. It is found that CU CPT 22 inhibits TLR1/2 signaling without affecting other TLRs, showing it is highly selective in intact cells. CU CPT 22 is found to have no significant cytotoxicity at various concentrations up to $100 \mu M$ in RAW 264.7 cells. The result demonstrates that CU CPT 22 can inhibit about 60% of TNF- α and 95% of IL-1 β at $8 \mu M$ ^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!