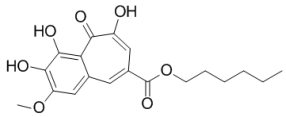
Product Name	:	CU-CPT22
Synonyms	:	——
Cat No.	:	M22927
CAS Number	:	1416324-85-0
Molecular Formula	:	C19H22O7
Formula Weight	:	362.37
Chemical Name	:	——
Description	:	CU-CPT22 is the first probe for the complex between toll-like receptors TLR1 and TLR2.?CU-CPT22 binds at the interface of TLR1 and TLR2 (IC50 = 0.58 μM).?It competes with the synthetic triacylated lipoprotein (Pam3CSK4) binding to TLR1/2 (Ki: 0.41 μM).?A novel compound (CU-CPT22) that can compete with the synthetic triacylated lipoprotein (Pam3CSK4) binding to TLR1/2 with high inhibitory activity and specificity.CU-CPT22 is a toll-like inhibitor of receptor 1 and 2 (TLR1/2) (IC50: 0.58±0.09 μM).?CU-CPT22 is found to have no significant cytotoxicity at various concentrations up to 100 μM in RAW 264.7 cells.?It is showed that CU-CPT22 is able to compete with Pam3CSK4 for binding to TLR1/2 (Ki: 0.41±0.07 μM).?Which is consistent with its potency observed in the whole cell assay.?Increasing the concentration of CU-CPT22 to 6 μM decreases the anisotropy to background levels.?It is found that CU-CPT22 inhibits TLR1/2 signaling without affecting other TLRs, showing it is highly selective in intact cells.??The result shows that CU-CPT22 can inhibit about 60% of TNF-αand 95% of IL-1β at 8 μM.
Pathway	:	Immunology/Inflammation
Target	:	TLR
Receptor	:	TLR2/1
Solubility	:	DMSO:125 mg/mL (344.95 mM)
SMILES	:	O=C(C(C=C1O)=CC2=CC(OC)=C(O)C(O)=C2C1=O)OCCCCCC
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Cheng K, et al. Discovery of small-molecule inhibitors of the TLR1/TLR2 complex. Angew Chem Int Ed Engl. 2012 Dec 3;51(49):12246-9.