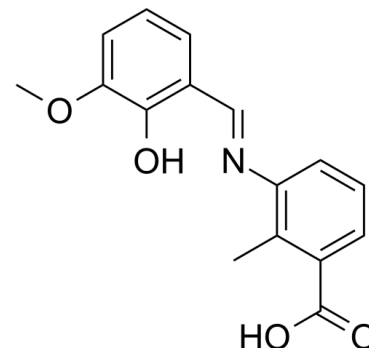


Data Sheet

Product Name:	C29
Cat. No.:	CS-6452
CAS No.:	363600-92-4
Molecular Formula:	C ₁₆ H ₁₅ NO ₄
Molecular Weight:	285.29
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Solubility:	DMSO : ≥ 30 mg/mL (105.16 mM)



BIOLOGICAL ACTIVITY:

C29 is a **Toll-like receptor 2 (TLR2)** inhibitor. IC₅₀ & Target: TLR2^[1] **In Vitro:** C29 blunts hTLR2/1 and hTLR2/6 signaling in HEK-TLR2 Stable transfectants and THP-1 Cells. C29 blocks P3C- and P2C-induced IL-8 mRNA dose-dependently in HEK-TLR2 stable transfectants. C29 also inhibits P3C- and P2C-induced IL-1β gene expression significantly at both 1 h and 4 h following stimulation, as well as both P3C- and P2C-induced NF-κB-luciferase activity in transiently transfected HEK293T cells expressing hTLR2 and an NF-κB-sensitive luciferase reporter construct. C29 preferentially inhibits TLR2/1 signaling in primary murine macrophages. C29 blocks TLR2 bacterial agonist-induced proinflammatory gene expression in HEK-TLR2 Cells and murine macrophages. C29 inhibits ligand-induced interaction of TLR2 with MyD88 and blocks MAPK and NF-κB activation^[1].

References:

[1]. Vogel S, et al. Small molecule inhibitors of tlr2 signaling. WO2016164414A1

[2]. Mistry P, et al. Inhibition of TLR2 signaling by small molecule inhibitors targeting a pocket within the TLR2 TIR domain. Proc Natl Acad Sci U S A. 2015 Apr 28;112(17):5455-60.

CAIndexNames:

Benzoic acid, 3-[[[(2-hydroxy-3-methoxyphenyl)methylene]amino]-2-methyl-

SMILES:

OC1=C(C(=N/C2=C(C)C(C(O)=O)=CC=C2)C=CC=C1OC

Caution: Product has not been fully validated for medical applications. For research use only.

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