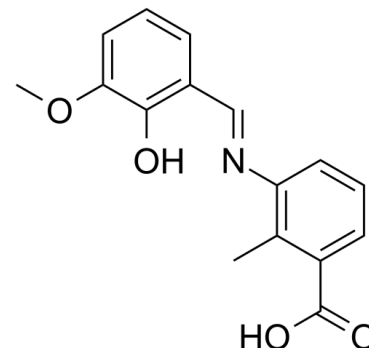


Data Sheet

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. C29 blocks hTLR2/1 and hTLR2/6 signaling with **IC₅₀s** of 19.7 and 37.6 μM, respectively^[1]. **IC₅₀ & Target: TLR2^[1] In Vitro:** C29 (10 or 50 μM; 1 hour) blocks P3C- and P2C-induced IL-8 mRNA dose-dependently in HEK-TLR2 stable transfectants. C29 (50-200 μM; 1 hour) inhibits P3C- and P2C-induced IL-1β gene expression significantly at both 1 h and 4 h following stimulation in THP-1 cells^[1].

C29 (25 or 50 μM; 1 hour) reduces P3C-induced but not P2C-induced TNF-α mRNA and IL-12 p40 protein significantly in primary murine macrophages^[1].

C29 (50 μM; 1 hour) blocks TLR2 bacterial agonist-induced proinflammatory gene expression in HEK-TLR2 cells and murine macrophages^[1].

References:

[1]. 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=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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