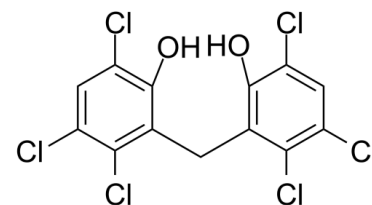


Data Sheet

Product Name:	Hexachlorophene
Cat. No.:	CS-3866
CAS No.:	70-30-4
Molecular Formula:	C ₁₃ H ₆ Cl ₆ O ₂
Molecular Weight:	406.90
Target:	Bacterial; Potassium Channel
Pathway:	Anti-infection; Membrane Transporter/Ion Channel
Solubility:	H ₂ O : < 0.1 mg/mL (insoluble); DMSO : ≥ 100 mg/mL (245.76 mM)



BIOLOGICAL ACTIVITY:

Hexachlorophene (Hexachlorofen) is a highly effective **antibacterial** agent, causes lysis of protoplasts and leakage of intracellular contents in bacterial at high concentrations^[1]. Hexachlorophene (Hexachlorofen) is also a **KCNQ1/KCNE1** (a **voltage-gated potassium channel**) activator, with an **EC₅₀** of 4.61 μM, used in the research of severe arrhythmia^[2]. IC₅₀ & Target: EC₅₀: 4.61 μM (KCNQ1/KCNE1)^[2]

References:

- [1]. Lloyd WJ, et al. Cyclohexane triones, novel membrane-active antibacterial agents. Antimicrob Agents Chemother. 1988 Jun;32(6):814-8.
- [2]. Zheng Y, et al. Hexachlorophene is a potent KCNQ1/KCNE1 potassium channel activator which rescues LQTS mutants. PLoS One. 2012;7(12):e51820.

CAIndexNames:

Phenol, 2,2'-methylenebis[3,4,6-trichloro-

SMILES:

OC1=C(Cl)C=C(Cl)C(Cl)=C1CC2=C(O)C(Cl)=CC(Cl)=C2Cl

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

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