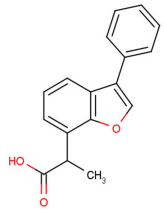
Data Sheet (Cat.No.T16715)

TargetMol
A DRUG SCREENING EXPERT

Furaprofen

Chemical Properties



CAS No.:	67700-30-5
Formula:	C17H14O3
Molecular Weight:	266.29
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Furaprofen is substantially more potent against genotype 1a and 1b replicons (EC50, ~30 nM) than against the genotype 2a replicon (EC50:1000 nM). Furaprofen is an effective HCV replication inhibitor.
Targets(IC_{50})	HCV genotype 1a and 1b replicons: (EC50) ~30 nM HCV genotype 2a replicon: ~1000 nM (EC50)
In vitro	The potency of Furaprofen against the replicon is also confirmed by both Western blotting and TaqMan RT-PCR to be about 37 nM and 54.67±4.11 nM, respectively. The antiviral activity of Furaprofen has been determined by a reporter replicon assay with multiple repeats to be 29.88±8.05 nM, an ~3-fold improvement over the activity of the parent compound, R706. To assess the general effect of Furaprofen on cell proliferation, a panel of primary cells and transformed human cell lines are treated with increasing doses of Furaprofen for 48 h, and the effect on cell proliferation is measured by an MTS-based cell viability assay. The concentration that caused a 50% reduction in cell numbers in the absence of virus infection (CC50) of Furaprofen is found to range from 2 μM to ≥10 μM, depending on the cell type and proliferation status[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.755 mL	18.777 mL	37.553 mL
5 mM	0.751 mL	3.755 mL	7.511 mL
10 mM	0.376 mL	1.878 mL	3.755 mL
50 mM	0.075 mL	0.376 mL	0.751 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Huang P, et al. Discovery and characterization of substituted diphenyl heterocyclic compounds as potent and selective inhibitors of hepatitis C virus replication. Antimicrob Agents Chemother. 2008 Apr;52(4):1419-29.

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