

## Sulochrin

**Chemical Properties**

CAS No.:	519-57-3
Formula:	C17H16O7
Molecular Weight:	332.3
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Sulochrin shows antifungal and antibacterial activities, it can inhibit hepatitis C virus (HCV) infection in a dose-dependent manner without any apparent cytotoxicity up to 50 $\mu$ M. Sulochrin has an inhibitory activity to eosinophil degranulation.
Targets(IC <sub>50</sub> )	Antifection: None HCV: None
In vitro	Hepatitis C virus (HCV) is a major causative agent of hepatocellular carcinoma. Although various classes of anti-HCV agents have been under clinical development, most of these agents target RNA replication in the HCV life cycle. METHODS AND RESULTS: To achieve a more effective multidrug treatment, the development of new, less expensive anti-HCV agents that target a different step in the HCV life cycle is needed. We prepared an in-house natural product library consisting of compounds derived from fungal strains isolated from seaweeds, mosses, and other plants. A cell-based functional screening of the library identified Sulochrin as a compound that decreased HCV infectivity in a multi-round HCV infection assay. Sulochrin inhibited HCV infection in a dose-dependent manner without any apparent cytotoxicity up to 50 $\mu$ M. HCV pseudoparticle and trans-complemented particle assays suggested that this compound inhibited the entry step in the HCV life cycle. CONCLUSIONS: Sulochrin showed anti-HCV activities to multiple HCV genotypes 1a, 1b, and 2a. Co-treatment of Sulochrin with interferon or a protease inhibitor telaprevir synergistically augmented their anti-HCV effects.

**Solubility Information**

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.009 mL	15.047 mL	30.093 mL
5 mM	0.602 mL	3.009 mL	6.019 mL
10 mM	0.301 mL	1.505 mL	3.009 mL
50 mM	0.060 mL	0.301 mL	0.602 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Specific inhibition of hepatitis C virus entry into host hepatocytes by fungi-derived sulochrin and its derivatives. *Biochem Biophys Res Commun.* 2013 Nov 1;440(4):515-20.
2. Studies on metabolites produced by *Aspergillus terreus* var. *aureus*. I. Chemical structures and antimicrobial activities of metabolites isolated from culture broth. *Chem Pharm Bull (Tokyo).* 1983 Dec;31(12):4543-8.

**Inhibitors · Natural Compounds · Compound Libraries**

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