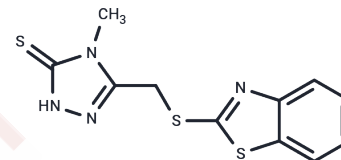


## Ceefourin 1

## Chemical Properties

CAS No. :	315702-40-0
Formula:	C <sub>11</sub> H <sub>10</sub> N <sub>4</sub> S <sub>3</sub>
Molecular Weight:	294.42
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ceefourin 1 is a highly selective multidrug resistance protein 4 (MRP4) inhibitor.
Targets(IC50)	Others,MRP,P-gp
In vitro	Ceefourin 1 and Ceefourin 2, that inhibit transport of a broad range of MRP4 substrates, yet are highly selective for MRP4 over other ABC transporters, including P-glycoprotein (P-gp), ABCG2 (Breast Cancer Resistance Protein;BCRP) and MRP1 (multidrug resistance protein 1;ABCC1).Both compounds are more potent MRP4 inhibitors in cellular assays than the most widely used inhibitor, MK-571, requiring lower concentrations to effect a comparable level of inhibition.Furthermore, Ceefourin 1 and Ceefourin 2 have low cellular toxicity, and high microsomal and acid stability.

## Solubility Information

Solubility	DMSO: 100 mg/mL (339.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+40% PEG300+5% Tween 80+50% Saline: 2 mg/mL (6.79 mM) <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.3965 mL	16.9825 mL	33.9651 mL
5 mM	0.6793 mL	3.3965 mL	6.793 mL
10 mM	0.3397 mL	1.6983 mL	3.3965 mL
50 mM	0.0679 mL	0.3397 mL	0.6793 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Cheung L , Flemming C L , Watt F , et al. High-throughput screening identifies Ceefourin 1 and Ceefourin 2 as highly selective inhibitors of multidrug resistance protein 4 (MRP4)[J]. *Biochemical Pharmacology*, 2014, 91(1):97-108.

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