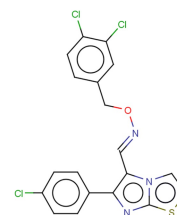


## CITCO

## Chemical Properties

CAS No.:	338404-52-7
Formula:	C <sub>19</sub> H <sub>12</sub> Cl <sub>3</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	436.74
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	CITCO inhibits growth and expansion of brain tumour stem cells (BTSCs) and has an EC <sub>50</sub> of 49 nM over pregnane X receptor (PXR), and no activity on other nuclear receptors. CITCO is an imidazothiazole derivative and it also is a selective Constitutive androstane receptor (CAR) agonist.
Targets(IC <sub>50</sub> )	CAR: None PXR: None

## Solubility Information

Solubility	H <sub>2</sub> O: insoluble DMSO: soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.290 mL	11.448 mL	22.897 mL
5 mM	0.458 mL	2.290 mL	4.579 mL
10 mM	0.229 mL	1.145 mL	2.290 mL
50 mM	0.046 mL	0.229 mL	0.458 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. Chakraborty S, et al. Constitutive androstane receptor agonist CITCO inhibits growth and expansion of brain tumour stem cells. Br J Cancer. 2011 Feb 1;104(3):448-59.

Inhibitors · Natural Compounds · Compound Libraries

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