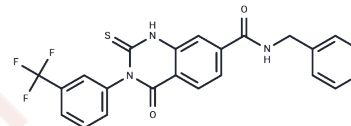


## Qc1

## Chemical Properties

CAS No. :	403718-45-6
Formula:	C <sub>23</sub> H <sub>16</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub> S
Molecular Weight:	455.45
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	Qc1 is an inhibitor of threonine dehydrogenase (TDH) inhibitor and can be used in studies about metabolic diseases.
Targets(IC50)	Others,Dehydrogenase
In vitro	Qc1 prevents threonine dehydrogenase from catabolizing threonine into acetyl-CoA and glycine and blocks the charging of tetrahydrofolate(THF). In ES cells, Qc1 (10 μM) increases autophagic activity[2].

## Solubility Information

Solubility	DMSO: 20 mg/mL (43.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1956 mL	10.9782 mL	21.9563 mL
5 mM	0.4391 mL	2.1956 mL	4.3913 mL
10 mM	0.2196 mL	1.0978 mL	2.1956 mL
50 mM	0.0439 mL	0.2196 mL	0.4391 mL

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

Alexander PB, et al. Targeted killing of a mammalian cell based upon its specialized metabolic state. Proc Natl Acad Sci U S A. 2011;108(38):15828-15833.

Wang J, et al. Metabolic specialization of mouse embryonic stem cells. Cold Spring Harb Symp Quant Biol. 2011;76:183-193.

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