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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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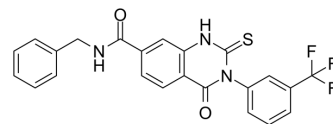
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Qc1

Cat. No.:	HY-103391
CAS No.:	403718-45-6
Molecular Formula:	C ₂₃ H ₁₆ F ₃ N ₃ O ₂ S
Molecular Weight:	455.45
Target:	Others
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 62.5 mg/mL (137.23 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description	Qc1 is a reversible and noncompetitive threonine dehydrogenase (TDH) inhibitor. Qc1 can be used for the research of Metabolic disease ^{[1][2]} .
IC ₅₀ & Target	TDH ^[1]
In Vitro	Qc1 (10 μM; 2~24 hours; ES cells) shows that a substantial fraction of the total LC3 protein is in the LC3-I (cytoplasmic) form. After 16 h of TDH inhibition, most LC3 is converted to the LC3-II (lipid-modified) form, indicative of increased autophagic activity^[2]. . Qc1 blocks the charging of tetrahydrofolate. Qc1 prevents threonine dehydrogenase from catabolizing threonine into acetyl-CoA and glycine^{[1][2]}. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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