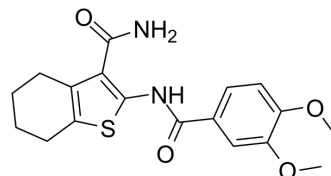


TCS 359

Cat. No.:	HY-13907
CAS No.:	301305-73-7
Molecular Formula:	C ₁₈ H ₂₀ N ₂ O ₄ S
Molecular Weight:	360.43
Target:	FLT3
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 14.29 mg/mL (39.65 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7745 mL	13.8723 mL	27.7446 mL
		5 mM	0.5549 mL	2.7745 mL	5.5489 mL
		10 mM	0.2774 mL	1.3872 mL	2.7745 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 1.43 mg/mL (3.97 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.43 mg/mL (3.97 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	TCS 359, a 2-acylaminothiophene-3-carboxamide, is a potent and selective FLT3 inhibitor with an IC ₅₀ of 42 nM. TCS 359 inhibits MV4-11 cell proliferation with an IC ₅₀ of 340 nM ^[1] .
IC ₅₀ & Target	IC ₅₀ : 42 nM (FLT3) ^[1]

CUSTOMER VALIDATION

- Oncotarget. 2016 May 17;7(20):29131-42.

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REFERENCES

[1]. Patch RJ, et al. Identification of 2-acylaminothiophene-3-carboxamides as potent inhibitors of FLT3. *Bioorg Med Chem Lett*. 2006 Jun 15;16(12):3282-6.

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

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