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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

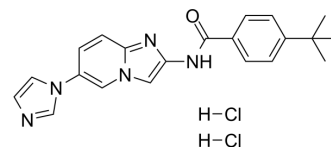
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TC ASK 10

Cat. No.:	HY-103258
CAS No.:	1005775-56-3
Molecular Formula:	C ₂₁ H ₂₃ Cl ₂ N ₅ O
Molecular Weight:	432.35
Target:	Apoptosis; MAP3K
Pathway:	Apoptosis; MAPK/ERK Pathway
Storage:	4°C, sealed storage, away from moisture
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (231.29 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.3129 mL	11.5647 mL	23.1294 mL
		5 mM		0.4626 mL	2.3129 mL	4.6259 mL
		10 mM		0.2313 mL	1.1565 mL	2.3129 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: ≥ 2.5 mg/mL (5.78 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 2.5 mg/mL (5.78 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	TC ASK 10 (Compound 10) is a potent, selective and orally active apoptosis signal-regulating kinase 1 (ASK1) inhibitor with an IC ₅₀ of 14 nM. The inhibitory activities of TC ASK 10 towards other representative panel of kinases are less than 50%, except for ASK2 (IC ₅₀ of 0.51 μM) ^[1] .
IC ₅₀ & Target	ASK1 14 nM (IC ₅₀)
In Vitro	TC ASK 10 (Compound 10; 0-10 μM; 1 hour; INS-1 cells) treatment inhibits streptozotocin (STZ)-induced JNK in INS-1 pancreatic β cells from 0.3 μM. Phosphorylation of p38 is also inhibited in a dosedependent manner ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	INS-1 cells
Concentration:	0 μ M, 0.3 μ M, 1 μ M, 3 μ M, 10 μ M
Incubation Time:	1 hour
Result:	Was found to inhibit streptozotocin (STZ)-induced JNK in INS-1 pancreatic β cells from 0.3 μ M. Phosphorylation of p38 was also inhibited in a dosedependent manner.

In Vivo

Pharmacokinetic profiles in rats are tested. TC ASK 10 (Compound 10•HCl; rat cassette doing at 0.1 mg/kg, iv and 1 mg/kg, po.) has a good oral bioavailability. The C_{max} , T_{max} and $AUC_{po,0-8h}$ are 285.1 ng/mL, 1.67 h and 275.4 ng.h/mL, respectively for TC ASK 10^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Terao Y, et al. Design and biological evaluation of imidazo[1,2-a]pyridines as novel and potent ASK1 inhibitors. Bioorg Med Chem Lett. 2012 Dec 15;22(24):7326-9.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA