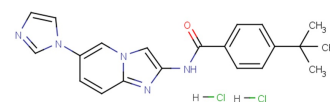


## TC ASK 10

## Chemical Properties

CAS No.:	1005775-56-3
Formula:	C <sub>21</sub> H <sub>23</sub> Cl <sub>2</sub> N <sub>5</sub> O
Molecular Weight:	432.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	TC ASK 10 is a potent, selective and orally active inhibitor of apoptosis signal-regulating kinase 1 (ASK1)(IC <sub>50</sub> of 14 nM).
Targets(IC <sub>50</sub> )	ASK1: 14 nM
In vitro	Streptozotocin (STZ)-induced JNK in INS-1 pancreatic β cells from 0.3 μM inhibited by TC ASK 10 (0-10 μM; 1 hour; INS-1 cells). Phosphorylation of p38 is also inhibited in a dosedependent manner.
In vivo	In rats, Pharmacokinetic profiles are tested. TC ASK 10 (rat cassette doing at 0.1 mg/kg, iv and 1 mg/kg, po.) has a good oral bioavailability. The C <sub>max</sub> , T <sub>max</sub> and AUC <sub>po,0-8h</sub> are 285.1 ng/mL, 1.67 h and 275.4 ng.h/mL, respectively for TC ASK 10.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.313 mL	11.565 mL	23.129 mL
5 mM	0.463 mL	2.313 mL	4.626 mL
10 mM	0.231 mL	1.156 mL	2.313 mL
50 mM	0.046 mL	0.231 mL	0.463 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. 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.

Inhibitors · Natural Compounds · Compound Libraries

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