

**Product Name:** TC ASK 10

**Catalog No.:** 4825

**Batch No.:** 2

CAS Number: 1005775-56-3

IUPAC Name: 4-(1,1-Dimethylethyl)-N-[6-(1*H*-imidazol-1-yl)imidazo[1,2-*a*]pyridin-2-yl]benzamide dihydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>N<sub>5</sub>O.2HCl.½H<sub>2</sub>O

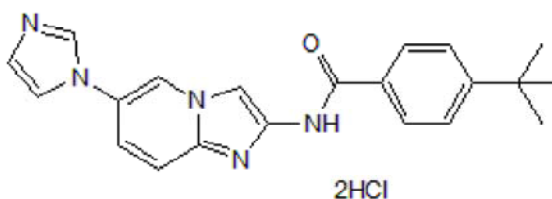
**Batch Molecular Weight:** 441.36

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.18 (DCM: 2M NH<sub>3</sub> in MeOH 100/3)

**HPLC:** Shows 99.7% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.15	5.48	15.87
Found	57.14	5.12	16.01

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

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**Description:**

TC ASK 10 is a potent ASK1 inhibitor (IC<sub>50</sub> = 14 nM); displays selectivity for ASK1 over other kinases including ASK2 (IC<sub>50</sub> = 0.51 μM), MEKK1, TAK1, IKKβ, ERK1, JNK1, p38α, GSK-3β, PKCθ and B-raf (IC<sub>50</sub> values are > 10 μM). Blocks downstream JNK1/p38 phosphorylation in cells. Orally bioavailable.

**Physical and Chemical Properties:**

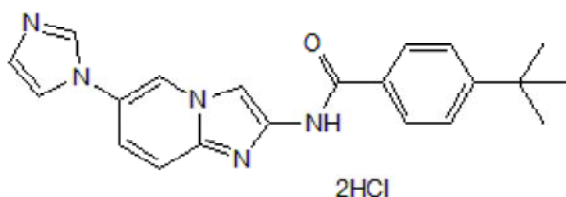
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Batch Molecular Weight: 441.36

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

Terao *et al* (2012) Design and biological evaluation of imidazo[1,2-*a*]pyridines as novel and potent ASK1 inhibitors. *Bioorg.Med.Chem.Lett.* **22** 7326. PMID: 23147077.

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