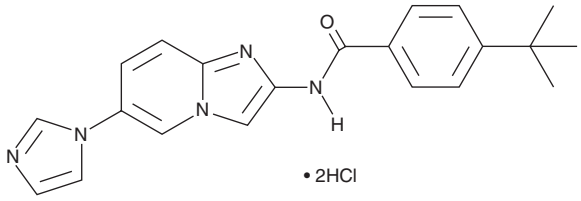
PRODUCT INFORMATION

ASK1 Inhibitor 10

Item No. 28512

CAS Registry No.:	1005775-56-3
Formal Name:	4-(1,1-dimethylethyl)-N-[6-(1H-imidazol-1-yl)imidazo[1,2-a]pyridin-2-yl]-benzamide, dihydrochloride
MF:	$C_{21}H_{21}N_5O \bullet 2HCl$
FW:	432.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 253, 335 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

ASK1 inhibitor 10 is supplied as a solid. A stock solution may be made by dissolving the ASK1 inhibitor 10 in the solvent of choice, which should be purged with an inert gas. ASK1 inhibitor 10 is soluble in the organic solvent DMSO at a concentration of approximately 40 mg/ml.

Description

ASK1 inhibitor 10 is an orally bioavailable inhibitor of apoptosis signal-regulating kinase 1 (ASK1; IC_{50} = 14 nM).[1] It is selective for ASK1 over ASK2 (IC_{50} = 510 nM) as well as MEKK1, TAK-1, IKKβ, ERK1, JNK1, p38α, GSK3β, PKCθ, and B-RAF (IC_{50}s = >10,000 nM for all). It inhibits streptozotocin-induced increases in JNK and p38 phosphorylation in INS-1 pancreatic β cells in a concentration-dependent manner.

Reference

1. Terao, Y., Suzuki, H., Yoshikawa, M., *et al.* Design and biological evaluation of imidazo[1,2-a]pyridines as novel and potent ASK1 inhibitors. *Bioorg. Med. Chem. Lett.* **22(24)**, 7326-7329 (2012).

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