

Product Name: SAK 3

Catalog No.: 6239

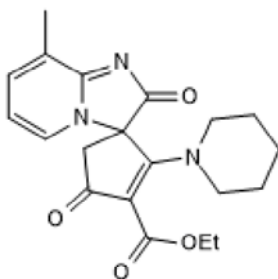
Batch No.: 1

CAS Number: 1256269-87-0

IUPAC Name: Ethyl 8'-methyl-2',4-dioxo-2-(piperidin-1-yl)-2'*H*-spiro[cyclopent[2]ene-1,3'-imidazo[1,2-*a*]pyridine]-3-carboxylate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₃N₃O₄·¼H₂O
Batch Molecular Weight: 373.91
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.49 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.24	6.33	11.24
Found	64.21	6.31	11.27

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:

Potent Ca_v3.1 and Ca_v3.3 activator. Enhances Ca_v3.1 and Ca_v3.3, but not Ca_v3.2 activity at concentrations of 0.01 - 10 M in neuro2A cells in vitro. Elevates ACh levels in hippocampus. Rescues impaired memory-related behaviors in OBX mice. Orally bioavailable.

Physical and Chemical Properties:

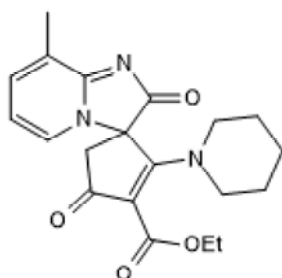
Batch Molecular Formula: C₂₀H₂₃N₃O₄·¼H₂O

Batch Molecular Weight: 373.91

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl 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:

Yabuki *et al* (2017) Pharmacological properties of SAK3, a novel T-type voltage-gated Ca²⁺ channel enhancer. *Neuropharmacology* **117** 1. PMID: 28093211.

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North America

Tel: (800) 343 7475

China

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Europe Middle East Africa

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Rest of World

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