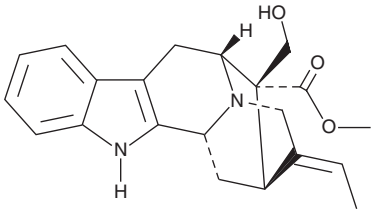
PRODUCT INFORMATION

Akuammidine

Item No. 35150

CAS Registry No.:	639-36-1
Formal Name:	17-hydroxy-sarpagan-16-carboxylic acid, methyl ester
Synonym:	Rhazine
MF:	$C_{21}H_{24}N_2O_3$
FW:	352.4
Purity:	≥95%
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

Akuammidine is supplied as a solid. A stock solution may be made by dissolving the akuammidine in the solvent of choice, which should be purged with an inert gas. Akuammidine is sparingly soluble (1-10 mg/ml) in methanol and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

Akuammidine is an indole alkaloid that has been found in *P. nitida* and has analgesic activity.[1] It selectively binds to the μ-opioid receptor over the κ- and δ-opioid receptors (K_is = 0.32, 14.2, and 15 μM for the human receptors, respectively) and inhibits forskolin-induced cAMP production in HEK293 cells expressing the human μ-opioid receptor (IC_{50} = 3.14 μM). Akuammidine increases the latency to withdrawal in the tail-flick and hot plate tests in mice.

Reference

1. Creed, S.M., Gutridge, A.M., Argade, M.D., *et al.* Isolation and pharmacological characterization of six opioidergic *Picralima nitida* alkaloids. *J. Nat. Prod.* **84(1)**, 71-80 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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