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Zuschläge

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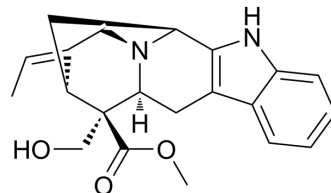
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Akuammidine

Cat. No.:	HY-N7437
CAS No.:	639-36-1
Molecular Formula:	C ₂₁ H ₂₄ N ₂ O ₃
Molecular Weight:	352.43
Target:	Opioid Receptor; DNA/RNA Synthesis
Pathway:	GPCR/G Protein; Neuronal Signaling; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Akuammidine, isolated from the seeds of <i>Picralima nitida</i> , shows a preference for μ -opioid binding sites with K_i values of 0.6, 2.4 and 8.6 μ M at μ -, σ - and κ -opioid binding sites, respectively. Akuammidine possesses anti-inflammatory and anti-asthmatic properties ^{[1][2]} .
IC₅₀ & Target	κ Opioid Receptor/KOR
In Vitro	Akuammidine treatment decreases the expression of IL-6 in cells ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Yuanyuan Hou, et al. Microfractionation Bioactivity-Based Ultra Performance Liquid Chromatography/Quadrupole Time-Of-Flight Mass Spectrometry for the Identification of Nuclear factor- κ B Inhibitors and β 2 Adrenergic Receptor Agonists in an Alkaloidal Extract of the Folk Herb *Alstonia Scholaris*. *J Chromatogr B Analyt Technol Biomed Life Sci.* 2012 Nov 1;908:98-104.
- [2]. J R Menzies, et al. Opioid Activity of Alkaloids Extracted From *Picralima Nitida* (Fam. Apocynaceae). *Eur J Pharmacol.* 1998 May 29;350(1):101-8.

Caution: Product has not been fully validated for medical applications. For research use only.

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