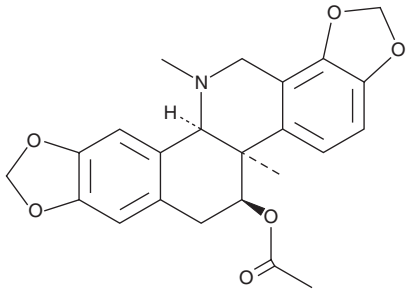
PRODUCT INFORMATION

Acetylcorynoline

Item No. 46081

CAS Registry No.:	18797-80-3
Formal Name:	(5bR,6S,12bR)-5b,6,7,12b,13,14-hexahydro-5b,13-dimethyl-[1,3]benzodioxolo[5,6-c]-1,3-dioxolo[4,5-i]phenanthridin-6-ol, 6-acetate
MF:	$C_{23}H_{23}NO_6$
FW:	409.4
Purity:	≥98%
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

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

Description

Acetylcorynoline is an alkaloid that has been found in *C. bungeana* and has diverse biological activities.[1-3] It reduces the half-life of c-Myc, inhibits proliferation, induces apoptosis, and induces cell cycle arrest at the G_2/M phase in HCT116 colon carcinoma cells expressing or not expressing p53.[1] Acetylcorynoline (10 and 20 µM) reduces the secretion of TNF-α, IL-6, and IL-12 p70 by mouse bone marrow-derived dendritic cells (BMDCs) stimulated with LPS. It also reduces delayed-type hypersensitivity in mice sensitized with 2,4-dinitro-1-fluorobenzene (DNFB) when administered at a dose of 100 µg/animal.[2] It has anti-parkinsonism effects in Parkinson's disease models using various strains of *C. elegans*, including reducing dopaminergic cell degeneration, preventing α-synuclein aggregation, and increasing dopamine levels and lifespan.[3]

References

1. Park, Y.-R., Jee, W., Park, S.-M., *et al.* Acetylcorynoline induces apoptosis and G2/M phase arrest through the c-Myc signaling pathway in colon cancer cells. *Int. J. Mol. Sci.* **24(24),** 17589 (2023).
2. Fu, R.-H., Wang, Y.-C., Liu, S.-P., *et al.* Acetylcorynoline impairs the maturation of mouse bone marrow-derived dendritic cells via suppression of IκB kinase and mitogen-activated protein kinase activities. *PLoS One* **8(3),** e58398 (2013).
3. Fu, R.-H., Wang, Y.-C., Chen, C.-S., *et al.* Acetylcorynoline attenuates dopaminergic neuron degeneration and α-synuclein aggregation in animal models of Parkinson's disease. *Neuropharmacology* **82,** 108-120 (2014).

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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