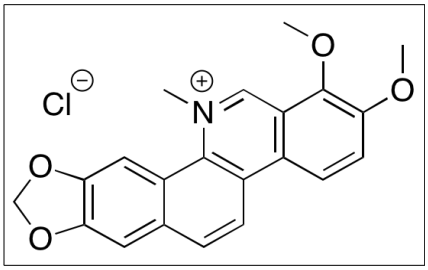
LKT Laboratories, Inc.

Chelerythrine Chloride

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID C2818
CAS No. 3895-92-9
Chemical Name 1,2-Dimethoxy-12-methyl[1,3]benzodioxolo[5,6-c] phenanthridinium
Synonym Toddaline



Formula $C_{21}H_{18}ClNO_4$
Formula Wt. 383.82
Melting Point 207°C
Purity ≥98%
Solubility Soluble in DMSO.

Bulk quanitites available upon request

Product ID	Size
C2818	1 mg
C2818	5 mg

Store Temp -20°C
Ship Temp Ambient

Description Chelerythrine is a benzophenanthridine alkaloid found in *Chelidonium* and *Zanthoxylum* that exhibits anti-inflammatory and anticancer activities. Chelerythrine inhibits PKC and Na+/K+ ATPases. In LPS-stimulated animal models, chelerythrine decreases levels of TNF-α, IL-6, and myeloperoxidase. In hepatoma cells, this compound decreases the mitochondrial membrane potential, increases release of cytochrome C, stimulates cleavage of PARP, alters the Bax/Bcl-xl ratio, and induces apoptosis.

References

Niu X, Mu Q, Li W, et al. Protective Effects of Chelerythrine Against Lipopolysaccharide-Induced Endotoxic Shock in Mice. Inflammation. 2014 Jun 14. [Epub ahead of print]. PMID: 24928629.

Dorney KM, Sizemore IE, Alqahtani T, et al. Surface-enhanced Raman spectroscopy (SERS) tracking of chelerythrine, a Na(+)/K(+) pump inhibitor, into cytosol and plasma membrane fractions of human lens epithelial cell cultures. Cell Physiol Biochem. 2013;32(7):146-56. PMID: 24429821.

Zhang ZF, Guo Y, Zhang JB, et al. Induction of apoptosis by chelerythrine chloride through mitochondrial pathway and Bcl-2 family proteins in human hepatoma SMMC-7721 cell. Arch Pharm Res. 2011 May;34(5):791-800. PMID: 21656365.