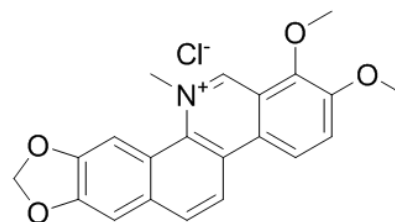


Product Name : Chelerythrine chloride
Cat. No. : PC-42863
CAS No. : 3895-92-9
Molecular Formula : C₂₁H₁₈ClNO₄
Molecular Weight : 383.8249
Target : PKC
Solubility : DMSO: ≥ 3.9 mg/mL



Biological Activity

Chelerythrine chloride is a potent, cell-permeable inhibitor of **PKC** (IC₅₀=66 nM) and **p38 MAPK**, also inhibits the **Bcl-XL**-Bak BH3 peptide binding with IC₅₀ of 1.5 uM and displaces Bax from Bcl-XL. Chelerythrine chloride inhibits LPS-induced TNF-α level and NO production in LPS-induced murine peritoneal macrophages through selective inhibition of p38 MAPK and ERK1/2 activation. Chelerythrine chloride triggers apoptosis via direct action on mitochondria.

References

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Li W, et al. *Inflammation*. 2012 Dec;35(6):1814-24.
Wan KF, et al. *J Biol Chem*. 2008 Mar 28;283(13):8423-33.
Zhang YH, et al. *J Mol Biol*. 2006 Dec 1;364(3):536-49.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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