TOCRIS a biotechne brand

Certificate of Analysis

www.tocris.com

Product Name: Chelerythrine chloride

CAS Number: **IUPAC Name:**

Storage:

Catalog No.: 1330

Batch No.: 8

EC Number: 251-930-0

3895-92-9

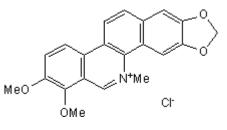
1,2-Dimethoxy-12-methyl[1,3]benzodioxolo[5,6-c]phenanthridinium chloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₁H₁₈CINO₄ 383.83 Yellow solid water to 10 mM DMSO to 10 mM Desiccate at -20°C



2. ANALYTICAL DATA

Melting Point: HPLC: ¹H NMR: Mass Spectrum: **Microanalysis:**

Between 206 - 208°C Shows >99.7% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	64.21	4.87	3.57	9.03
Found	64.36	4.9	3.55	8.98

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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Print Date: Jan 8th 2016

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Description:

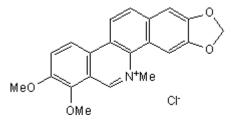
Cell-permeable inhibitor of protein kinase C (IC₅₀ = 660 nM); competitive with respect to the phosphate acceptor and non-competitive with respect to ATP. Has a wide range of biological activities, including antiplatelet, anti-inflammatory, antibacterial and antitumor effects. Activates MAPK pathways, independent of PKC inhibition. Inhibits binding of Bcl_{XL} to Bak (IC₅₀ = 1.5 μ M) or Bad proteins and stimulates apoptosis.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₁₈CINO₄ Batch Molecular Weight: 383.83 Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 10 mM DMSO to 10 mM

This product is supplied in a sealed glass ampoule as a lyophilized solid, please refer to the Tocris catalogue for opening instructions. Iyophilized solids can be hard to visualize therefore solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Herbert *et al* (1990) Chelerythrine is a potent and specfic inhibitor of protein kinase C. Biochem.Biophys.Res.Commun. **172** 993. PMID: 2244923.

Lee *et al* (1998) Angoline and chelerythrine, benzophenanthridine alkaloids that do not inhibit protein kinase C. J.Biol.Chem. **273** 19829. PMID: 9677417.

Yu et al (2000) Activation of p38 and c-Jun N-terminal kinase pathways and induction of apoptosis by chelerythrine do not require inhibition of protein kinase C. J.Biol.Chem. 275 9612. PMID: 10734112.

Chan et al (2003) Identification of chelerythrine as an inhibitor of BcIXL function. J.Biol.Chem. 278 20453. PMID: 12702731.

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info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956