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DATASHEET

Chelerythrine Chloride

Product overview

Name	Chelerythrine Chloride
Cat No	HB0190
Alternative names	CHE
Biological action	Inhibitor
Purity	>98%
Description	PKC inhibitor

Images



Biological Data

Biological description	Protein kinase C (PKC) inhibitor ($IC_{50} = 660$ nM). Competitive inhibitor of the phosphate acceptor, non-competitive ATP inhibitor. Inhibits BclXL function; inhibits BclXL-Bak BH3 peptide binding ($IC_{50} = 1.5$ μ M). Shows apoptotic and antitumor actions.
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Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (10mM) or DMSO (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1,2-Dimethoxy-12-methyl[1,3]benzodioxolo[5,6-c]phenanthridinium chloride
Molecular Weight	383.83
Chemical structure	
Molecular Formula	$C_{21}H_{18}ClNO_4$
CAS Number	3895-92-9
PubChem identifier	72311

SMILES
InChIKey

C[N+]1=C2C(=C3C=CC(=C(C3=C1)OC)OC)C=CC4=CC5=C(C=C42)OCO5.Cl
WEEFNMFMMASJY-UHFFFAOYSA-M

References

Chelerythrine is a potent and specific inhibitor of protein kinase C.

Herbert JM *et al* (1990) *Biochem Biophys Res Commun* 172(3)

PubMedID [2244923](#)

Induction of apoptosis by chelerythrine chloride through mitochondrial pathway and Bcl-2 family proteins in human hepatoma SMMC-7721 cell.

Zhang ZF *et al* (2011) *Arch Pharm Res* 34(5)

PubMedID [21656365](#)

Identification of chelerythrine as an inhibitor of BclXL function.

Chan SL *et al* (2003) *J Biol Chem* 278(23)

PubMedID [12702731](#)
