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REVISION 5			
Chelerythrine	Chloride	Orders:	ECHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com
9		Support:	877-678-TECH (8324)
191		Web:	info@cellsignal.com cellsignal.com
#1	3 Trask Land	e   Danvers   Mass	sachusetts   01923   USA
For Research Use Only. Not for	r Use in Diagnostic Procedures.		
Background	Chelerythrine is a benzophenanthridine alkaloid that elicits initially reported to be a potent PKC inhibitor (IC <sub>50</sub> = 660 nM domain, competitive with respect to the phosphate accepto and is often used in research as a means to inhibit PKC activ have shown that chelerythrine is not a potent PKC inhibitor inhibition (5,6). Researchers have demonstrated that cheler oxidative stress mechanism (6), inhibits Bcl-xL by preventing $\mu$ M) and disrupting the interaction between Bcl-xL and Bax	a wide range of bio ) through interaction r, noncompetitive wa vation (2-4). Howeve and its effects are in ythrine activates JN g Bcl-xL-Bak BH3 per (7), and induces approximation	logical responses. It was on with the catalytic <i>v</i> ith respect to ATP (1), er, subsequent studies ndependent of PKC K and p38 through an eptide binding (IC <sub>50</sub> = 1.5 optosis (6-8).
Molecular Formula	C <sub>21</sub> H <sub>18</sub> NO <sub>4</sub> Cl		
Molecular Weight	383.82 g/mol		
Purity	>99%		
CAS	3895-92-9		
Solubility	Soluble in DMSO and H2O at 5mg/ml.		
Storage	Store lyophilized or in solution at -20°C, desiccated. Protect is stable for 24 months. Once in solution, use within 3 mont avoid multiple freeze/thaw cycles.	from light. In lyoph hs to prevent loss c	ilized form, the chemical of potency. Aliquot to
Directions for Use	Chalarythring Chlarida is supplied as a lyaphilized powder [	For a 10 mM stock	roconstituto the 5 mg in

Chelerythrine Chloride is supplied as a lyophilized powder. For a 10 mM stock, reconstitute the 5 mg in Directions for Use 1.30 ml DMSO. Working concentrations and length of treatment can vary depending on the desired effect, but it is typically used at 1-20 µM either as a pretreatment for 15 min-1 hr prior to treating with a stimulator or used alone with varying treatment times lasting up to 24 hr.

Background References	1. Herbert, J.M. et al. (1990) <i>Biochem Biophys Res Commun</i> 172, 993-9. 2. Chao, M.D. et al. (1998) <i>Planta Med</i> 64, 662-3. 3. Nakai, M. et al. (1999) <i>J Neurochem</i> 72, 1179-86. 4. Iwabu, A. et al. (2004) <i>J Biol Chem</i> 279, 14551-60. 5. Lee, S.K. et al. (1998) <i>J Biol Chem</i> 273, 19829-33. 6. Yu, R. et al. (2000) <i>J Biol Chem</i> 275, 9612-9. 7. Chan, S.L. et al. (2003) <i>J Biol Chem</i> 278, 20453-6. 8. Chmura, S.J. et al. (2000) <i>Clin Cancer Res</i> 6, 737-42.
	8. Chmura, S.J. et al. (2000) <i>Clin Cancer Res</i> 6, 737-42.

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