盐酸白屈菜红碱

中文名：盐酸白屈菜红碱

英文名：Chelerythrine chloride

CAS 号：3895-92-9

分子式：C21H18NO4.Cl

分子量：383.82

MDL 号： MFCD00060717

属 性

溶解性 Soluble in methanol, 100% ethanol, water(warm) (2 mg/ml), and DMSO (≥10 mg/ml).

存贮条件 储存温度-20°C

密 度 否

荧 光 否

IC50 否

pK Values 否

描 述

别 名 白菜屈红碱氯化物；白屈菜赤碱氯化物；白屈菜赤碱 ;1,2-Dimethoxy-N-methyl(1,3)benzodioxolo(5,6-c)phenanthridinium chloride;Toddalin chloride

产品介绍 Chelerythrine chloride Is an isoquinoline alkaloid isolated from the root of Zanthoxylum simulans, Chelidonium majus L., and other Papaveraceae. It has been reported to be a potent and selective inhibitor of PKC (protein kinase C, IC50=0.66 μM), and an independent activator of MAPK pathways. The compound has been observed to induce apoptosis in HL-60

human promyelocytic leukemia cells. The proposed method of action of apoptotic stimulation is through the inhibition of binding BclXL to Bax or Bad at an IC50 = 1.5 μM. When used in combination with cisplatin inhibition of cell proliferation of non-small cell lung cancer cells was increased in an additive/synergistic pattern. Also through inhibition of thromboxane formation and phosphoinositide breakdown chelerythrine chloride was demonstrated to inhibit rabbit platelet aggregation and release. Chelerythrine Chloride is an inhibitor of Cox-2.

用 途　A potent and selective inhibitor of protein kinase C.

生化机理　Chelerythrine affects translocation of PKC from cytosol to plasma membrane. Shown to prevent neurite growth. Induces apoptosis in a concentration- and schedule-dependent manner.