

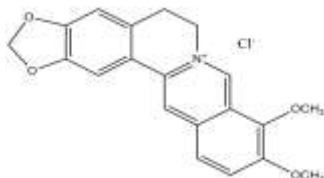
Berberine Chloride

ALTERNATE NAME: Natural Yellow 18, 5,6-Dihydro-9,10-dimethoxybenzo[g]-1,3-benzodioxolo[5,6-a]quinolinizinium

CATALOG #: 1830-100, 500

AMOUNT: 100 mg, 500 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₁₈ClNO₄

MOLECULAR WEIGHT: 371.81

CAS NUMBER: 633-65-8

APPEARANCE: Yellow to orange solid

SOLUBILITY: MeOH (50 mg/ml) or Water (~ 2 mg/ml)

PURITY: ≥98% by TLC

STORAGE: Store at -20 °C

DESCRIPTION: An isoquinoline alkaloid that acts as an anticancer agent. It inhibits cell growth and induces apoptosis in a variety of cancer cell lines. It induces the most potent apoptosis in acute lymphoblastic leukemia (ALL) cells with both MDM2 overexpression and a wild-type (wt)-p53, whereas no pro-apoptotic effect was detected in ALL cells that were negative for MDM2 and wt-p53.

REFERENCE: Zhang, X., *et al.* (2010). *Cancer Res.* 70, 9895-9904.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Actinomycin D (**Cat. No. 1036-50**)
- Betulinic Acid (**Cat. No. 1552-25, 100**)
- Brefeldin A (**Cat. No. 1560-5**)
- Cerulenin (**Cat. No. 1579-5, 50**)
- Colchicine (**Cat. No. 1519-1000**)
- Cycloheximide (**Cat. No. 1041-1, 1G**)
- Daunorubicin HCl (**Cat. No. 1524-10**)
- Dexamethasone (**Cat. No. 1042-1G, 10G**)
- Etoposide (**Cat. No. 1043-25**)
- Etoposide (100 mM) (**Cat. No. 1043-100**)
- Tamoxifen Citrate (**Cat. No. 1551-100**)

FOR RESEARCH USE ONLY! Not to be used on humans.