**Product:** Bufalin

**ALTERNATE NAME:** 3β,14-Dihydroxy-5β,20(22)-bufadienolide, 5β,20(22)-Bufadienolide-3β,14-diol

**CATALOG #:** 2509-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**

![Bufalin Structure](image)

**MOLECULAR FORMULA:** C_{24}H_{34}O_{4}

**MOLECULAR WEIGHT:** 386.52

**CAS No.** 465-21-4

**APPEARANCE:** White to off-white solid

**SOLUBILITY:** DMSO (~25 mg/ml) or EtOH (~ 25 mg/ml, warm)

**PURITY:** >98% by HPLC

**STORAGE:** Store at -20°C. Protect from air and moisture

**DESCRIPTION:** Bufalin is a cardioactive steroid that exhibits a variety of biological activities, such as cardiotonic, anaesthetic, blood pressure stimulatory, respiratory and antineoplastic effects. Acts as a specific Na^{+}/K^{+}-ATPase inhibitor. More potent than ouabain. Induces cell differentiation. Induces apoptosis in U937 and HL-60 cells by activation of AP-1 via a MAPK pathway that involves JNK. Regulates Tiam1 gene. Down regulates expression of 14-3-3 protein.


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

*FOR RESEARCH USE ONLY! Not to be used in humans.*