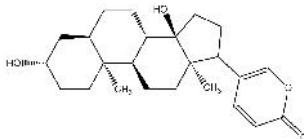


**Product: Bufalin****ALTERNATE NAME:** 3,14-Dihydroxy-5,20(22)-bufadienolide, 5,20(22)-Bufadienolide-3,14-diol**CATALOG #:** 2509-10, 50**AMOUNT:** 10 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C<sub>24</sub>H<sub>34</sub>O<sub>4</sub>**MOLECULAR WEIGHT:** 386.52**CAS No.** 465-21-4**APPEARANCE:** 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 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<sup>+</sup>/K<sup>+</sup>-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.**REFERENCES:** Takai, N., *et al.* (2012). *Asian Pac. J. Cancer Prev.* **13**, 399-402.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**

Bafilomycin A1 (Cat. No. 1829-50, 250)

(+)-Blebbistatin (**Cat. No. 2407-1, 5**)(±)-Blebbistatin (**Cat. No. 2405-5, 25**)(-)-Blebbistatin (**Cat. No. 2406-1, 5**)**FOR RESEARCH USE ONLY! Not to be used in humans.**