

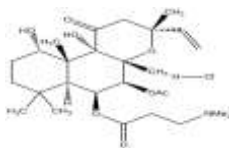
**PRODUCT: NKH477**

**ALTERNATE NAME:** *N,N*-Dimethyl-(3*R*,4*aR*,5*S*,6*aS*,10*S*,10*aR*,10*bS*)-5-(acetyloxy)-3-ethenyldodecahydro-10,10*b*-dihydroxy-3,4*a*,7,7,10*a*-pentamethyl-1-oxo-1*H*-naphtho[2,1-*b*]pyran-6-yl ester β-alanine hydrochloride; Colforsin dapropate hydrochloride, 6-(3-dimethylaminopropionyl)forskolin hydrochloride

**CATALOG #:** 9427-1, 5

**AMOUNT:** 1 mg, 5 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>27</sub>H<sub>43</sub>NO<sub>8</sub>.HCl

**MOLECULAR WEIGHT:** 546.1

**CAS NUMBER:** 138605-00-2

**APPEARANCE:** White solid

**SOLUBILITY:** DMSO (>50 mg/ml) or H<sub>2</sub>O (~20 mg/ml)

**PURITY:** ≥95%

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

**DESCRIPTION:** NKH477 is a water-soluble analog of the adenylyl cyclase activator Forskolin (Cat. No. 1531). Like forskolin, NKH477 activates adenylyl cyclases without altering the activity of phosphodiesterases or sodium/potassium ATPases. It stimulates cardiac (type V) adenylyl cyclase more potently than other isoforms. NKH477 relaxes guinea pig tracheal smooth muscle precontracted with histamine with an EC<sub>50</sub> value of 32.6 nM.

**REFERENCES:** Hosono, M., *et al.* (1992). *J. Cardiovasc. Pharmacol.* **19**, 625-634.

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

**RELATED PRODUCTS:**

Forskolin (Cat. No. 1531-5, 25)

EZSolution™ Forskolin (Cat. No. 2662-5)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**