

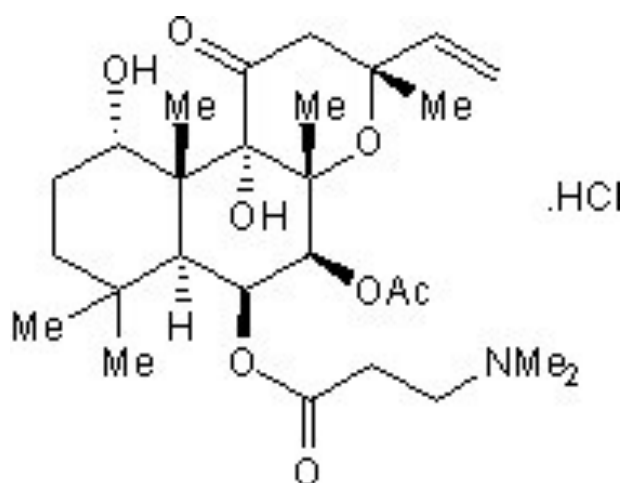
Cat No. 50-M87

NKH477

5mg

NKH477 is a water-soluble analog of forskolin. Like forskolin, NKH477 activates adenylyl cyclases without altering the activity of phosphodiesterases or sodium/potassium ATPases. This compound stimulates cardiac (type V) adenylyl cyclase more potently than other isoforms. It dose dependently increases cAMP and blocks potassium-induced contraction concentrations in smooth muscle strips (IC50 = 80 nM). NKH 477 causes relaxation of histamine treated guinea pig smooth muscle (IC50 = 32 nM).

TECHNICAL INFORMATION



Other Names: (3R, 4aR, 5S, 6S, 6aS, 10S, 10aR, 10bS)-5-(acetyloxy)-3-ethenyldodecahydro-10, 10b-dihydroxy-3, 4a,7, 7, 10a-pentamethyl-β-alanine, N, N-dimethyl-oxo-1H-naphtho[2,1-b]pyran-6-yl ester, monohydrochloride

Chemical Formula: C₂₇H₄₃NO₈·HCl

CAS Number: 138605-00-2

PubChem Substance ID: 444028

Molecular Weight: 546.10

Purity: >98%

Appearance: White Crystalline Solid

Solubility: DMSO



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO.

REFERENCES

1. Nakashima, S., et al (2005). Antiproliferative effects of NKH477, a Forskolin derivative, on cytokine profile in rat lung allografts. *J Heart Lung Transplant.* 24:462-9.
2. Oishi, H., et al (2012). Olprinone and colforsin darpotate alleviate septic lung inflammation and apoptosis through CREB-independent activation of the AKT pathway. *Am J Physiol Cell Mol Physiol.* 303:L130-40.
3. Suzuki, S., et al (2012). Intraarterial colforsin may improve the outcome of pateints with aneurysmal subarachnoid hemorrhage: a restrospective study. *World Neursurg.* 78:295-9.