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**

**Chemical Formula:** C_{27}H_{43}NO_{8}·HCl

**CAS Number:** 138605-00-2

**PubChem Substance ID:** 444028

**Molecular Weight:** 546.10

**Purity:** >98%

**Appearance:** White Crystalline Solid

**Solubility:** DMSO

**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**