1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{27}\text{H}_{43}\text{NO}_{8}\cdot\text{HCl} \)
   Batch Molecular Weight: 546.1
   Physical Appearance: White solid
   Solubility: water to 40 mM
   ethanol to 15 mM
   DMSO to 100 mM
   Storage: Desiccate at +4°C
   Batch Molecular Structure:

2. ANALYTICAL DATA

   TLC: \( R_f = 0.25 \) (Chloroform:Methanol [9:1])
   HPLC: Shows >98.5% purity
   \(^1\text{H} \text{NMR:}\) Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
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<th>Element</th>
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<th>Found</th>
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<tr>
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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

Product Name: NKH 477
Catalog No.: 1603
Batch No.: 7

Description:
Water-soluble analog of forskolin (Cat. No. 1099) that is a potent activator of adenylyl cyclase; shows some selectivity for cardiac (type V) adenylyl cyclase. Stimulates bronchodilation (EC50 = 32.6 nM) and is an orally active potent positive chronotrope and hypotensive agent in vivo. Also available as part of the PKA Tocriset™.

Storage: Desiccate at +4°C

Solubility & Usage Info:
- Water to 40 mM
- Ethanol to 15 mM
- DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: