1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{26}\text{H}_{56}\text{N}_{10}.2\text{HCl} \)

   Batch Molecular Weight: 581.71

   Physical Appearance: White solid

   Solubility: DMSO to 100 mM, ethanol to 100 mM

   Storage: Desiccate at -20°C

2. ANALYTICAL DATA

   \(^1\text{H NMR:}\) Consistent with structure

   Mass Spectrum: Consistent with structure
Product Information

**Product Name:** Alexidine dihydrochloride

**CAS Number:** 1715-30-6

**IUPAC Name:** \(N,N'\text{-Bis}(2\text{-ethylhexyl})\text{-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide dihydrochloride}\)

**Catalog No.:** 3979

**Batch No.:** 2

**EC Number:** 216-994-6

**Description:**
Selective inhibitor of protein tyrosine phosphatases localized to mitochondrion 1 (PTPMT1) (IC\(\text{50} = 1.08\ \mu\text{M}\) in vitro). Stimulates increased insulin secretion by \(\beta\)-cells in rat pancreatic islets. Displays antitumor properties in FaDu cells. Also preserves functional hematopoietic stem cells ex vivo.

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** \(C_{2}\text{6}H_{5}\text{N}_{10}\cdot2\text{HCl}\)
- **Batch Molecular Weight:** 581.71
- **Physical Appearance:** White solid

**Batch Molecular Structure:**

![Molecular Structure](image)

**Storage:** Desiccate at \(-20^\circ\text{C}\)

**Solubility & Usage Info:**
- DMSO to 100 mM
- ethanol 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 \(-20^\circ\text{C}\) or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**