**Product Name:** Fasudil hydrochloride

**CAS Number:** 105628-07-7

**IUPAC Name:** 1-(5-Isoquinolinesulfonyl)homopiperazine hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{14}H_{17}N_{3}O_{2}S\cdot HCl\cdot \frac{1}{2}H_{2}O$

**Batch Molecular Weight:** 336.84

**Physical Appearance:** White solid

**Solubility:** Water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**

![Molecular Structure](image)

### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>49.92</td>
<td>50.09</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.69</td>
<td>5.59</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>12.47</td>
<td>12.51</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Product Name:** Fasudil hydrochloride  
**Catalog No.:** 0541  
**Batch No.:** 4

**CAS Number:** 105628-07-7  
**IUPAC Name:** 1-(5-Isoquinolinesulfonyl)homopiperazine hydrochloride

**Description:**
Cyclic nucleotide-dependent protein kinase inhibitor and Rho-associated kinase inhibitor (IC<sub>50</sub> = 10.7 μM). Suppress MMP-2 expression and induce apoptosis in glioblastoma cells in vivo. Ca<sup>2+</sup> antagonist and vasodilator. Also inhibits proliferation of vascular smooth muscle cells.

**Physical and Chemical Properties:**
**Batch Molecular Formula:** C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>S.HCl.½H<sub>2</sub>O  
**Batch Molecular Weight:** 336.84  
**Physical Appearance:** White solid  
**Minimum Purity:** >98%

**Batch Molecular Structure:**

![Molecular Structure]

**Storage:** Store at RT

**Solubility & Usage Info:**
Water 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:**