

**Product Name:** SC 144 hydrochloride

**Catalog No.:** 4963

**Batch No.:** 1

CAS Number: 917497-70-2

IUPAC Name: 2-(7-Fluoropyrrolo[1,2-a]quinoxalin-4-yl) 2-pyrazinecarboxylic acid hydrazide hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>11</sub>FN<sub>6</sub>O.HCl

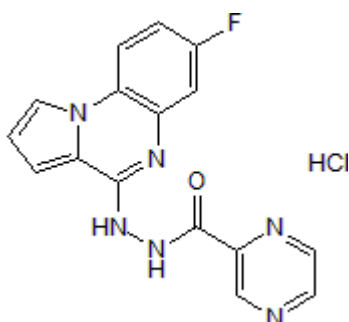
**Batch Molecular Weight:** 358.76

**Physical Appearance:** Beige powder

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.61 (Dichloromethane:Methanol: Aqueous Ammonia [8:9:1:0])

**HPLC:** Shows 99.6% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.57	3.37	23.43
Found	53.53	3.39	23.46

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**Description:**

Inhibitor of gp130 ( $IC_{50} = 0.72 \mu M$ ); blocks cytokine-triggered gp130 signaling. Induces gp130 phosphorylation and down regulates gp130 glycosylation; also abrogates STAT3 phosphorylation, nuclear translocation and inhibits the expression of downstream target genes. Delays tumor growth in a mouse xenograft model of human ovarian cancer. Orally active.

**Physical and Chemical Properties:**

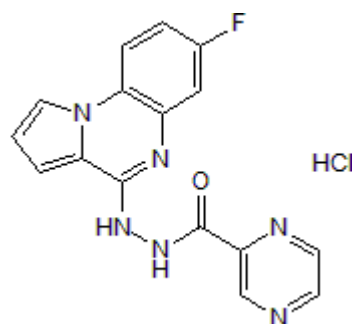
Batch Molecular Formula:  $C_{16}H_{11}FN_6O \cdot HCl$

Batch Molecular Weight: 358.76

Physical Appearance: Beige powder

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

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:**

**Xu et al** (2013) Discovery of a novel orally active small-molecule gp130 inhibitor for the treatment of ovarian cancer. *Mol.Cancer Ther.* **12** 937. PMID: 23536726.

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