

Product Name: SC 144 hydrochloride

Catalog No.: 4963

Batch No.: 4

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: C₁₆H₁₁FN₆O.HCl.¼H₂O

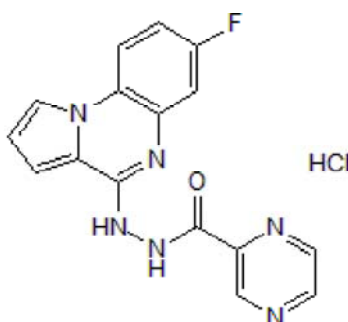
Batch Molecular Weight: 363.26

Physical Appearance: Pale yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.9	3.47	23.14
Found	52.78	3.43	23.03

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

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Description:

SC 144 hydrochloride is an inhibitor of gp130 ($IC_{50} = 0.72 \mu M$); blocks cytokine-triggered gp130 signaling. SC 144 hydrochloride induces gp130 phosphorylation and down regulates gp130 glycosylation; also abrogates STAT3 phosphorylation, nuclear translocation and inhibits the expression of downstream target genes. SC 144 hydrochloride delays tumor growth in a mouse xenograft model of human ovarian cancer. Orally active.

Physical and Chemical Properties:

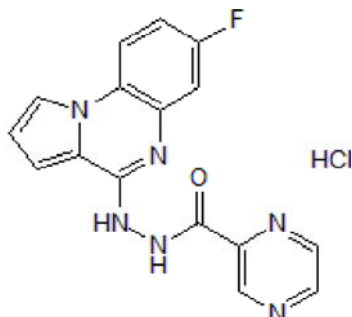
Batch Molecular Formula: $C_{16}H_{11}FN_6O \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 363.26

Physical Appearance: Pale yellow solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

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 $45-60^{\circ}C$ 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 $-20^{\circ}C$ 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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