

## SI-2 hydrochloride

## Chemical Properties

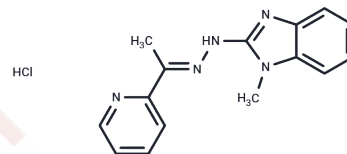
CAS No. : 1992052-49-9

Formula: C<sub>15</sub>H<sub>16</sub>ClN<sub>5</sub>

Molecular Weight: 301.77

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SI-2 hydrochloride (EPH 116 hydrochloride) is a highly promising inhibitor of SRC-3 SMI: SRC-3 (PPI)(IC <sub>50</sub> values of 3-20 nM for breast cancer cell death), with acceptable oral availability.
Targets(IC <sub>50</sub> )	Estrogen Receptor/ERR,Others,Src
In vitro	SI-2 selectively reduce the transcriptional activities and the protein concentrations of SRC-3 in cells through direct physical interactions with SRC-3. Breast cancer cell death selectively induced by SI-2 with IC <sub>50</sub> of 3-20 nM. SI-2 (100 nM) decreases cell motility, invasion, and tumor metastasis in MDAMB-468 cells[1].
In vivo	SI-2 causes minimal acute cardiotoxicity based on a hERG channel blocking assay and an unappreciable chronic toxicity to major organs based on histological analyses. SI-2 is a drug-like molecule and meets all of the criteria of Lipinski's rule[1].

## Solubility Information

Solubility	DMSO: 4.5 mg/mL (14.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.3138 mL	16.5689 mL	33.1378 mL
5 mM	0.6628 mL	3.3138 mL	6.6276 mL
10 mM	0.3314 mL	1.6569 mL	3.3138 mL
50 mM	0.0663 mL	0.3314 mL	0.6628 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Song X, et al. Development of potent small-molecule inhibitors to drug the undruggable steroid receptor coactivator-3. Proc Natl Acad Sci U S A. 2016 May 3;113(18):4970-5.

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