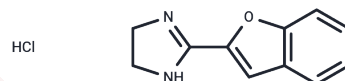


## 2-BFI hydrochloride

## Chemical Properties

CAS No. :	89196-95-2
Formula:	C <sub>11</sub> H <sub>11</sub> ClN <sub>2</sub> O
Molecular Weight:	222.67
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	2-BFI hydrochloride is a high-affinity agonist of I2-imidazoline receptor. 2-BFI hydrochloride can be used in studies about protection against stroke and acute inflammatory immune disease.
Targets(IC50)	Imidazoline Receptor
In vivo	2-BFI hydrochloride administration after dMCAO improved the neurological deficits and decreased the infarct volume. 2-BFI hydrochloride reduced phosphorylation of mTOR and p70S6, increased IL-10 and TGF- $\beta$ , and decreased IFN- $\gamma$ levels in ischemic rats. 2-BFI hydrochloride attenuates ischemic injury by inhibiting the activation of mTOR signaling and modulating neuroinflammation after stroke in rats[2].

## Solubility Information

Solubility	H <sub>2</sub> O: 20 mg/mL (89.82 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.491 mL	22.4548 mL	44.9095 mL
5 mM	0.8982 mL	4.491 mL	8.9819 mL
10 mM	0.4491 mL	2.2455 mL	4.491 mL
50 mM	0.0898 mL	0.4491 mL	0.8982 mL

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

Soto CJ, John OP. The next Big Five Inventory (BFI-2): Developing and assessing a hierarchical model with 15 facets to enhance bandwidth, fidelity, and predictive power. J Pers Soc Psychol. 2017 Jul;113(1):117-143.

Cheng Y, et al. 2-BFI attenuates ischemic injury by modulating mTOR signaling and neuroinflammation in rats. Neurosci Lett. 2021 Apr 17;750:135766.

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