

## Auten-99 HBr

## Chemical Properties

CAS No. : 1049780-58-6

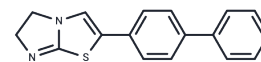
Formula: C<sub>17</sub>H<sub>15</sub>BrN<sub>2</sub>S

Molecular Weight: 359.28

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

Actual storage temperature shall be subject to the COA.

HBr



## Biological Description

Description	Auten-99 HBr (Auten-99) is a myotubularin phosphatase Jumpy inhibitor exerting potent neuroprotective effects. AUTEN-99 activates autophagy in cell cultures and animal models. AUTEN-99 appears to effectively penetrate through the blood-brain barrier, and impedes the progression of neurodegenerative symptoms in Drosophila models of Parkinson's and Huntington's diseases. Furthermore, the molecule increases the survival of isolated neurons under normal and oxidative stress-induced conditions. Thus, AUTEN-99 serves as a potent neuroprotective drug candidate for preventing and treating diverse neurodegenerative pathologies, and may promote healthy aging.
Targets(IC50)	Others,Phosphatase

## Solubility Information

Solubility	DMSO: 11 mg/mL (30.62 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	2.7833 mL	13.9167 mL	27.8334 mL
5 mM	0.5567 mL	2.7833 mL	5.5667 mL
10 mM	0.2783 mL	1.3917 mL	2.7833 mL
50 mM	0.0557 mL	0.2783 mL	0.5567 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

Erdos Attila, Vellai Tibor. Compounds For Enhancing Autophagy.WO/2018/130863

Kovács T, Billes V, Komlós M, Hotzi B, Manzéger A, Tarnóci A, Papp D, Szikszai F, Szinyákovics J, Rácz Á, Noszál B, Veszelka S, Walter FR, Deli MA, Hackler L Jr, Alfoldi R, Huzian O, Puskas LG, Liliom H, Tárnok K, Schlett K, Borsy A, Welker E, Kovács AL, Pádár Z, Erdős A, Legradi A, Bjelik A, Gulya K, Gulyás B, Vellai T. The small molecule AUTEN-99 (autophagy enhancer-99) prevents the progression of neurodegenerative symptoms. Sci Rep. 2017 Feb 16;7:42014. doi: 10.1038/srep42014. PubMed PMID: 28205624; PubMed Central PMCID: PMC5311965.

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