

## Befloxatone

## Chemical Properties

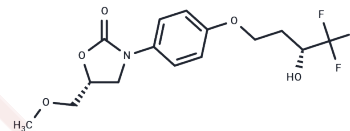
CAS No. : 134564-82-2

Formula: C<sub>15</sub>H<sub>18</sub>F<sub>3</sub>NO<sub>5</sub>

Molecular Weight: 349.3

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	Befloxatone is a potent, selective and reversible inhibitor of monoamine oxidase A.
Targets(IC50)	Others, Monoamine Oxidase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8629 mL	14.3143 mL	28.6287 mL
5 mM	0.5726 mL	2.8629 mL	5.7257 mL
10 mM	0.2863 mL	1.4314 mL	2.8629 mL
50 mM	0.0573 mL	0.2863 mL	0.5726 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

- Zanotti-Fregonara P, Bottlaender M. [11C]befloxatone distribution is well correlated to monoamine oxidase A protein levels in the human brain. *J Cereb Blood Flow Metab.* 2014 Dec;34(12):1951-2. doi: 10.1038/jcbfm.2014.157. Epub 2014 Sep 17. PubMed PMID: 25227605; PubMed Central PMCID: PMC4269741.
- Zanotti-Fregonara P, Leroy C, Rizzo G, Roumenov D, Trichard C, Martinot JL, Bottlaender M. Imaging of monoamine oxidase-A in the human brain with [11C]befloxatone: quantification strategies and correlation with mRNA transcription maps. *Nucl Med Commun.* 2014 Dec;35(12):1254-61. doi: 10.1097/MNM.000000000000196. PubMed PMID: 25185897.
- Zanotti-Fregonara P, Leroy C, Roumenov D, Trichard C, Martinot JL, Bottlaender M. Kinetic analysis of [11C]befloxatone in the human brain, a selective radioligand to image monoamine oxidase A. *EJNMMI Res.* 2013 Nov 25;3(1):78. doi: 10.1186/2191-219X-3-78. PubMed PMID: 24274579; PubMed Central PMCID: PMC4176482.
- Hosten B, Boisgard R, Jacob A, Goutal S, Saubaméa B, Dollé F, Scherrmann JM, Cisternino S, Tournier N. [11C]befloxatone brain kinetics is not influenced by Bcrp function at the blood-brain barrier: a PET study using Bcrp TGEM knockout rats. *Eur J Pharm Sci.* 2013 Nov 20;50(3-4):520-5. doi: 10.1016/j.ejps.2013.08.015. Epub 2013 Aug 24. PubMed PMID: 23981334.

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