

## Burixafor hydrobromide

## Chemical Properties

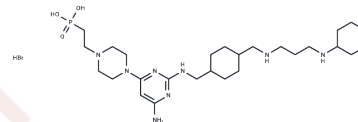
CAS No. : 1191450-19-7

Formula: C<sub>27</sub>H<sub>52</sub>BrN<sub>8</sub>O<sub>3</sub>P

Molecular Weight: 647.644

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	Burixafor hydrobromide (TG-0054 hydrobromide) is an orally bioavailable and potent CXCR4 antagonist with anti-angiogenic properties, potentially valuable in treating choroid neovascularization.
Targets(IC50)	CXCR, VEGFR
In vitro	Burixafor hydrobromide mobilizes mesenchymal stem cells, attenuates inflammation, and preserves cardiac systolic function in a porcine model of myocardial infarction [2].

## Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (77.2 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	1.5441 mL	7.7203 mL	15.4407 mL
5 mM	0.3088 mL	1.5441 mL	3.0881 mL
10 mM	0.1544 mL	0.772 mL	1.5441 mL
50 mM	0.0309 mL	0.1544 mL	0.3088 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

- Shelke NB, et al. Intravitreal Poly(L-lactide) Microparticles Sustain Retinal and Choroidal Delivery of TG-0054, a Hydrophilic Drug Intended for Neovascular Diseases. *Drug Deliv Transl Res.* 2011 Feb;1(1):76-90.
- Hsu WT, et al. CXCR4 Antagonist TG-0054 Mobilizes Mesenchymal Stem Cells, Attenuates Inflammation, and Preserves Cardiac Systolic Function in a Porcine Model of Myocardial Infarction. *Cell Transplant.* 2015;24(7):1313-28.

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