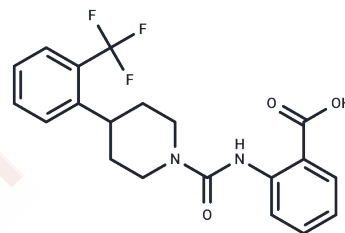


A 1120

Chemical Properties

CAS No. : 1152782-19-8
 Formula: C₂₀H₁₉F₃N₂O₃
 Molecular Weight: 392.37
 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	A 1120 is a nonretinoid retinol-binding protein 4 (RBP4) antagonist (K _i : 8.3 nM), which disrupts the interaction between RBP4 and its binding partner transthyretin.
Targets(IC50)	Others
In vitro	The IC ₅₀ of A 1120 is 66 nM on mouse RBP4 and 90 nM on human RBP4 [1].

Solubility Information

Solubility	DMSO: 95 mg/mL (242.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (8.41 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5486 mL	12.7431 mL	25.4861 mL
5 mM	0.5097 mL	2.5486 mL	5.0972 mL
10 mM	0.2549 mL	1.2743 mL	2.5486 mL
50 mM	0.051 mL	0.2549 mL	0.5097 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

Motani A, et al. Identification and characterization of a non-retinoid ligand for retinol-binding protein 4 which lowers serum retinol-binding protein 4 levels in vivo. *J Biol Chem.* 2009 Mar 20;284(12):7673-80.

Dobri N, et al. A1120, a nonretinoid RBP4 antagonist, inhibits formation of cytotoxic bisretinoids in the animal model of enhanced retinal lipofuscinogenesis. *Invest Ophthalmol Vis Sci.* 2013 Jan 7;54(1):85-95.

Xue C, Tian Y, Zhang J, Zhao Y, Zhan J, Fang W, Zhang L. Efficacy of BIBF 1120 or BIBF 1120 plus chemotherapy on nasopharyngeal carcinoma in vitro and in vivo. *Drug Des Devel Ther.* 2016 Mar 15;10:1173-80

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