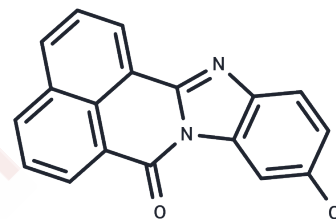


## 10-Cl-BBQ

## Chemical Properties

CAS No. :	23982-76-5
Formula:	C <sub>18</sub> H <sub>9</sub> ClN <sub>2</sub> O
Molecular Weight:	304.73
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	10-Cl-BBQ is a ligand of aryl hydrocarbon receptor (AhR).
Targets(IC50)	Others,Aryl Hydrocarbon Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2816 mL	16.408 mL	32.8159 mL
5 mM	0.6563 mL	3.2816 mL	6.5632 mL
10 mM	0.3282 mL	1.6408 mL	3.2816 mL
50 mM	0.0656 mL	0.3282 mL	0.6563 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

Ehrlich AK, Pennington JM, Wang X, Rohlman D, Punj S, Löhr CV, Newman MT, Kolluri SK, Kerkvliet NI. Activation of the Aryl Hydrocarbon Receptor by 10-Cl-BBQ Prevents Insulinitis and Effector T Cell Development Independently of Foxp3+ Regulatory T Cells in Nonobese Diabetic Mice. *J Immunol*. 2016 Jan 1;196(1):264-73. doi: 10.4049/jimmunol.1501789. Epub 2015 Nov 16. PubMed PMID: 26573835; PubMed Central PMCID: PMC4684970.

Punj S, Kopparapu P, Jang HS, Phillips JL, Pennington J, Rohlman D, O'Donnell E, Iversen PL, Kolluri SK, Kerkvliet NI. Benzimidazoisoquinolines: a new class of rapidly metabolized aryl hydrocarbon receptor (AhR) ligands that induce AhR-dependent Tregs and prevent murine graft-versus-host disease. *PLoS One*. 2014 Feb 19;9(2):e88726. doi: 10.1371/journal.pone.0088726. eCollection 2014. PubMed PMID: 24586378; PubMed Central PMCID: PMC3929365.

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