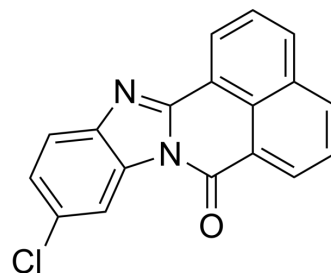


10-Cl-BBQ

Cat. No.:	HY-118438
CAS No.:	23982-76-5
Molecular Formula:	C ₁₈ H ₉ ClN ₂ O
Molecular Weight:	304.73
Target:	Aryl Hydrocarbon Receptor
Pathway:	Immunology/Inflammation
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1.67 mg/mL (5.48 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.2816 mL	16.4080 mL	32.8159 mL	
5 mM	0.6563 mL	3.2816 mL	6.5632 mL	
10 mM	---	---	---	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

10-Cl-BBQ is a high affinity AhR ligand with immunosuppressive activity. 10-Cl-BBQ promotes cytosol to nuclear translocation of AhR and activates the AhR-regulated reporter gene at nanomolar concentrations^{[1][2]}.

REFERENCES

[1]. Allison K Ehrlich, et al. 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.

[2]. Sumit Punj, et al. Benzimidazoisquinolines: 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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