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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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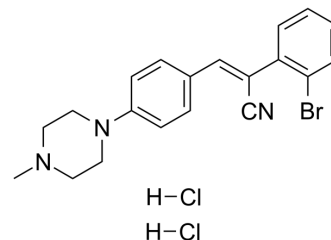
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DG172 dihydrochloride

Cat. No.:	HY-19737A
CAS No.:	1361504-77-9
Molecular Formula:	C ₂₀ H ₂₂ BrCl ₂ N ₃
Molecular Weight:	455.22
Target:	PPAR
Pathway:	Cell Cycle/DNA Damage
Storage:	4°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	H ₂ O : 14.29 mg/mL (31.39 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	2.1967 mL	10.9837 mL	21.9674 mL	
		5 mM	0.4393 mL	2.1967 mL	4.3935 mL	
		10 mM	0.2197 mL	1.0984 mL	2.1967 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	DG172 dihydrochloride is a selective PPARβ/δ antagonist, with an IC ₅₀ of 27 nM.
IC ₅₀ & Target	PPARβ/δ 27 nM (IC ₅₀)
In Vitro	DG172 dihydrochloride is a selective PPARβ/δ antagonist, with an IC₅₀ of 27 nM. DG172 enhances transcriptional corepressor recruitment, and down-regulates transcription of the PPARβ/δ target gene Angptl4 in mouse myoblasts (IC₅₀, 9.5 nM)^[1]. DG172 (1 μM) promotes the differentiation of dendritic cells (DCs) from GM-CSF-induced mouse bone marrow cells (BMCs) and reduces Ly6b⁺/Gr1⁺ granulocytic cells. DG172 has effects on the transcriptome of GM-CSF differentiated BMCs from WT and Ppard null mice, and acts at a specific stage of GM-CSF-induced differentiation^[2]. DG172 (0.1, 1.0 μM) dose-dependently promotes proliferation of TM4 cells. DG172 reduces expression of claudin-11 in TM4 cells^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay ^[3]

The xCELLigence system is used for determining the changes in real time cell proliferation in response to activation of PPAR δ with an agonist (GW0742) or an inverse agonist (DG172) or the effect of inhibiting ERK signaling in TM4 cells^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Lieber S, et al. (Z)-2-(2-bromophenyl)-3-[[4-(1-methyl-piperazine)amino]phenyl]acrylonitrile (DG172): an orally bioavailable PPAR β/δ -selective ligand with inverse agonistic properties. J Med Chem. 2012 Mar 22;55(6):2858-68.
- [2]. Lieber S, et al. The inverse agonist DG172 triggers a PPAR β/δ -independent myeloid lineage shift and promotes GM-CSF/IL-4-induced dendritic cell differentiation. Mol Pharmacol. 2015 Feb;87(2):162-73.
- [3]. Yao PL, et al. Peroxisome Proliferator-activated Receptor-D (PPAR δ) Coordinates Mouse Spermatogenesis by Modulating Extracellular Signal-regulated Kinase (ERK)-dependent Signaling. J Biol Chem. 2015 Sep 18;290(38):23416-31.
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Caution: Product has not been fully validated for medical applications. For research use only.

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