## AR-C141990 hydrochloride

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Cat. No.:	HY-119996A	
CAS No.:	2250019-94-2	
Molecular Formula:	C <sub>26</sub> H <sub>29</sub> ClN <sub>4</sub> O <sub>4</sub> S	
Molecular Weight:	529.05	s' '
Target:	Monocarboxylate Transporter	ľ ľ
Pathway:	Membrane Transporter/Ion Channel	N
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	H-CI

Description	AR-C141990 hydrochloride is a potent lactate transporters (monocarboxylate transporters; MCTs) inhibitor with pK <sub>i</sub> values of 7.6, 6.6 for MCT-1 and MCT-2, respectively <sup>[1]</sup> . AR-C141990 hydrochloride has immunosuppressive properties and inhibits graft versus host response <sup>[2]</sup> .	
IC <sub>50</sub> & Target	pKi: 7.6 (MCT-1) and 6.6 (MCT-2) <sup>[1]</sup>	
In Vitro	AR-C141990 hydrochloride has no significant activity against MCT-3 (pIC <sub>50</sub> <5) or MCT-4 (pIC <sub>50</sub> <5) <sup>[1]</sup> . AR-C141990 hydrochloride inhibits the uptake of [ <sup>3</sup> H]HOCPCA in oocytes expressing MCT1 or 2 in a concentration-dependent manner with IC <sub>50</sub> s of 0.21 μM and 2.32 μM, respectively <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	AR-C141990 hydrochloride (10 mg/kg; SC) with a parallel decline in plasma concentrations with a half-life around 20 minutes in male NMRI mice (18-22 g) <sup>[2]</sup> . Application of the corresponding plasma concentrations of AR-C141990 hydrochloride (0.3-90 mg/kg) results in a concentration-dependent decrease in the B/P of HOCPCA with an EC <sub>50</sub> of 860 ng/ml <sup>[2]</sup> . AR-C141990 (100 mg/kg; s.c.) has a moderate prolongation of graft survival for 40 days in PVG rats that received DA cardiac transplants <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

## CUSTOMER VALIDATION

• Cell Death Differ. 2023 Aug 15.

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## REFERENCES

[1]. Clara Påhlman, et al. Immunosuppressive Properties of a Series of Novel Inhibitors of the Monocarboxylate Transporter MCT-1. Transpl Int. 2013 Jan;26(1):22-9.

**Product** Data Sheet

[2]. Louise Thiesen, et al. In Vitro and In Vivo Evidence for Active Brain Uptake of the GHB Analog HOCPCA by the Monocarboxylate Transporter Subtype 1. J Pharmacol Exp Ther. 2015 Aug;354(2):166-74.

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

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