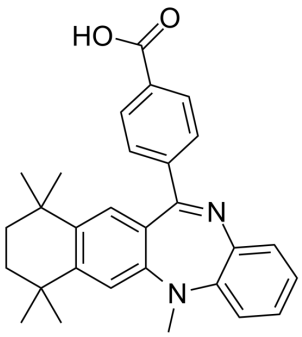
HX600

Cat. No.:	HY-120875
CAS No.:	172705-89-4
Molecular Formula:	$C_{29}H_{30}N_2O_2$
Molecular Weight:	438.56
Target:	RAR/RXR
Pathway:	Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description

HX600 is a synthetic agonist for RXR (Retinoid X Receptor) heterodimer complex. HX600 prevents ischemia-induced neuronal damage. HX600 has orally bioactivity[1].

IC_{50} & Target

RXR α	RXR β	RXR γ
1.9 μM (Ki)	0.64 μM (Ki)	1 μM (Ki)

In Vitro

HX600 (100-1000 μM; 24 h) is not directly neuroprotective against glutamate exposure[1].
HX600 (1 μM; 24 h) inhibits the expression of inflammatory mediators in primary microglia and prevents inflammation induced neuronal death[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Apoptosis Analysis[1]

Cell Line:	Primary Cortical Neuron Cells
Concentration:	0 μM, 0.1 μM, 0.2 μM, 0.5 μM, 1 μM, 2 μM, 5 μM, 10 μM, 20 μM
Incubation Time:	24 h
Result:	Showd HX600 was not able to prevent the glutamate induced neuronal death.

In Vivo

HX600 (60 mg/kg; p.o.; every 24h) reduces ischemic damage and alleviates motor deficits in permanent ischemia model and Iba-1, phospho-p38 and TREM-2 immunoreactivities in the ischemic brain[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Ischemic Mice[1]
Dosage:	60 mg/kg
Administration:	Oral Gavage (p.o.)
Result:	Revealed that mice treated with HX600 had smaller lesion with the size of 21%, and significantly reduction in Iba-1, phospho-p38 and TREM-2 at protein level.

REFERENCES

[1]. Siddhesh S Kamat, et al. Immunomodulatory lysophosphatidylserines are regulated by ABHD16A and ABHD12 interplay. Nat Chem Biol 2015 Feb;11(2):164-71.

[2]. Hiroki Umemiya, et al. Action Mechanism of Retinoid-Synergistic Dibenzodiazepines. Biochem Biophys Res Commun. 1997 Apr 7;233(1):121-5.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA