Norisoboldine hydrochloride

MedChemExpress

®

Cat. No.:	HY-N0586A	0
CAS No.:	5083-84-1	но
Molecular Formula:	C ₁₈ H ₂₀ CINO ₄	
Molecular Weight:	349.81	
Target:	Adenosine Receptor	
Pathway:	GPCR/G Protein	HO
Storage:	Please store the product under the recommended conditions in the Certificate of	нн
	Analysis.	H–Cl

	TV	
BIOLOGICAL ACTIVI	TY	
Description	Norisoboldine hydrochloride hydrochloride, as a major iso arthritis and Ulcerative colitis	is an orally active natural aryl hydrocarbon receptor (AhR) agonist. Norisoboldine quinoline alkaloid present in Radix Linderae, can be used for the research of Rheumatoid s ^{[1][2]} .
IC ₅₀ & Target	AhR ^[2]	
In Vitro	Norisoboldine hydrochloride significantly downregulates r Norisoboldine hydrochloride Norisoboldine hydrochloride Norisoboldine hydrochloride AhR, and the formation of Ah MCE has not independently o Western Blot Analysis ^[2]	e (1~30 μM; 0~24 hours; CD4+T cells) activates AhR under hypoxic microenvironment and mRNA expression of miR-31 ^[2] . e (30 μM; 0~24 hours; CD4+T cells) inhibits glycolysis in hypoxia ^[2] . e (1~30 μM; 0~72 hours; Treg cells) promotes Treg differentiation in hypoxia ^[2] . e (10, 30 μM) facilitates the disassociation of HSP90/AhR complexes, the nuclear translocation of R/ARNT complexes. Norisoboldine hydrochloride induces generation of Treg cells in hypoxia ^[2] . confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	CD4+T cells
	Concentration:	1~30 μM
	Incubation Time:	24 hours
	Result:	Activated AhR in cells under hypoxic microenvironment.
	RT-PCR ^[2]	
	Cell Line:	CD4+T cells

Cell Line:	CD4+T cells
Concentration:	1~30 µM
Incubation Time:	24 hours
Result:	Significantly downregulated mRNA expression of miR-31.

Immunofluorescence^[2]

Product Data Sheet

Concentration:	30 µM
Incubation Time:	24 hours
Result:	Inhibited glycolysis in hypoxia.
Immunofluorescence ^[2]	
Cell Line:	Treg cells
Concentration:	1~30 μM
Incubation Time:	72 hours
Result:	Promoted Treg differentiation in hypoxia.
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe	e experiment ^[1] . loride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons ^[2] . ently confirmed the accuracy of these methods. They are for reference only.
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model:	experiment ^[1] . loride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons ^[2] . ently confirmed the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g)
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during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model: Dosage: Administration:	experiment ^[1] . loride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons ^[2] . ently confirmed the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g) 10~40 mg/kg P.o.
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model: Dosage: Administration: Result:	 Conde (10 40 mg/kg, p.0., 20 days) significantly reduces the seventy of joint swelling and erythe experiment^[1]. Ioride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons^[2]. Intly confirmed the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g) 10~40 mg/kg P.o. Significantly reduced the severity of joint swelling and erythema during the course of t experiment.
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model: Dosage: Administration: Result: Animal Model:	Water (10-40 mg/kg, p.0., 20 days) significantly reduces the seventy of joint swelling and erythe e experiment ^[1] . Ioride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons ^[2] . Intly confirmed the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g) 10~40 mg/kg P.o. Significantly reduced the severity of joint swelling and erythema during the course of t experiment. Female C57BL/6 mice (18–22 g)
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model: Dosage: Administration: Result: Animal Model: Dosage:	 While (10 40 mg/kg, p.0., 20 days) significantly reduces the seventy of joint swelling and erythere experiment^[1]. Ioride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons^[2]. Male round the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g) 10~40 mg/kg P.o. Significantly reduced the severity of joint swelling and erythema during the course of t experiment. Female C57BL/6 mice (18–22 g) 40 mg/kg
during the course of the Norisoboldine hydrochl expressions of Glut1 and MCE has not independe Animal Model: Dosage: Administration: Result: Dosage: Animal Model: Dosage: Administration:	borde [10 -40 mg/kg, p.0., 20 days) significantly reduces the severity of joint swetting and erythe experiment ^[1] . loride (40 mg/kg; i.g.; 10 days) induces enhancement of CYP1A1 expression and suppresses d HK2 in colons ^[2] . intly confirmed the accuracy of these methods. They are for reference only. Male ICR mice (18–22 g) 10~40 mg/kg P.o. Significantly reduced the severity of joint swelling and erythema during the course of t experiment. Female C57BL/6 mice (18–22 g) 40 mg/kg I.g.

REFERENCES

In Vivo

[1]. Luo Y, et al. Therapeutic effect of norisoboldine, an alkaloid isolated from Radix Linderae, on collagen-induced arthritis in mice. Phytomedicine. 2010;17(10):726-731.

[2]. Lv Q, et al. Norisoboldine, a natural AhR agonist, promotes Treg differentiation and attenuates colitis via targeting glycolysis and subsequent NAD+/SIRT1/SUV39H1/H3K9me3 signaling pathway. Cell Death Dis. 2018;9(3):258. Published 2018 Feb 15.

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

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