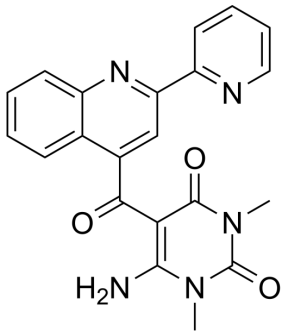
TM6008

Cat. No.:	HY-112678
CAS No.:	945008-17-3
Molecular Formula:	$C_{21}H_{17}N_5O_3$
Molecular Weight:	387.39
Target:	HIF/HIF Prolyl-Hydroxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

TM6008 is a potent and orally active prolyl hydroxylase (PHD) inhibitor. TM6008 chelats transition metal (copper) and inhibits the autoxidation of ascorbic acid with an IC_{50} value is 0.57 μM. TM6008 exerts organ protection against ischemia in vivo and can be used for cerebrovascular disease research[1].

In Vivo

TM6008 (p.o.; 50 mg/kg; single dosage) exhibits plasma Tmax, Cmax, and T1/2 values of 3.5 hour, 0.9 μg/mL and 1.5 hour for TM6008 in rat[1].

TM6008 (p.o.; 100 mg/kg; 7 days) protects against hypoxia-induced apoptotic neuronal death and decreases the number of apoptotic cells in Gerbils after a 5-minute transient global cerebral ischemia[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Gerbils after a 5-minute transient global cerebral ischemia[1]
Dosage:	100 mg/kg
Administration:	p.o.; 100 mg/kg; 7 days
Result:	Exerted organ protection against ischemia in vivo.

REFERENCES

[1]. Masaomi Nangaku, et al. A novel class of prolyl hydroxylase inhibitors induces angiogenesis and exerts organ protection against ischemia. Arterioscler Thromb Vasc Biol. 2007 Dec;27(12):2548-54.

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