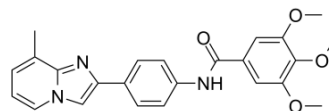


Protein deglycase DJ-1 against-1

Cat. No.:	HY-137262		
CAS No.:	724737-74-0		
Molecular Formula:	C ₂₄ H ₂₃ N ₃ O ₄		
Molecular Weight:	417.46		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (59.89 mM); ultrasonic and adjust pH to 7 with NaOH				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3954 mL	11.9772 mL	23.9544 mL
		5 mM	0.4791 mL	2.3954 mL	4.7909 mL
10 mM		0.2395 mL	1.1977 mL	2.3954 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.98 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.98 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Protein deglycase DJ-1 against-1, a DJ-1-binding compound, dependently targets DJ1. Protein deglycase DJ-1 against-1 penetrates through the blood brain barrier (BBB). Protein deglycase DJ-1 against-1 is used as a neuroprotective agent and has the potential for Parkinson's disease research ^[1] .
In Vivo	Protein deglycase DJ-1 against-1 (compound-23; 1 mg/kg; IP; pretreatment one hour; daily; for 4 days) significantly restores MPTP induced locomotion, dopaminergic neuronal cell death and dopamine content in DJ-1(+/+) mice but not in DJ-1(-/-) mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Wild-type male C57BL/6 mice at 8, 11-12 and 9-12 weeks; DJ-1-knockout male mice at 11-13 weeks ^[1]
Dosage:	1 mg/kg
Administration:	IP; pretreatment one hour; daily; for 4 days
Result:	Significantly restored MPTP (30 mg/kg; IP; One hour after injection) induced locomotion, dopaminergic neuronal cell death and dopamine content in DJ-1(+/+) mice but not in DJ-1(-/-) mice.

REFERENCES

[1]. Kazuko Takahashi-Niki, et al. DJ-1-dependent protective activity of DJ-1-binding compound no. 23 against neuronal cell death in MPTP-treated mouse model of Parkinson's disease.

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