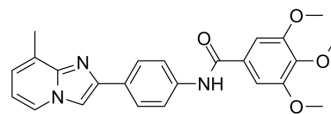


Protein deglycase DJ-1 against-1

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	<ol style="list-style-type: none"> 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 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.

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