

D-685

## Chemical Properties

CAS No. :	2893801-00-6
Formula:	C32H39N3O3
Molecular Weight:	513.67
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	D-685, a prodrug of D-520, demonstrates enhanced anti-Parkinsonian efficacy in a reserpinized Parkinson's disease (PD) animal model compared to its parent compound D-520. It effectively reduces the buildup of human $\alpha$ -synuclein ( $\alpha$ -syn) protein and readily penetrates the brain [1].
Targets(IC50)	Others
In vivo	D-685 (12 mg/kg; intraperitoneal injection daily; for one month) reduced $\alpha$ -synuclein accumulation in transgenic mice [1]. Compared to Lisuride alone, D-685 (10 $\mu$ mol/kg; intraperitoneal injection) effectively reversed motor deficits and enhanced locomotor activity in male and female Sprague-Dawley rats (weighing 220-225 g) over a 6-hour period [1]. D-685 exhibited a high brain-to-plasma ratio (B/P: 4), indicating efficient brain penetration following intraperitoneal administration [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9468 mL	9.7339 mL	19.4678 mL
5 mM	0.3894 mL	1.9468 mL	3.8936 mL
10 mM	0.1947 mL	0.9734 mL	1.9468 mL
50 mM	0.0389 mL	0.1947 mL	0.3894 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

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