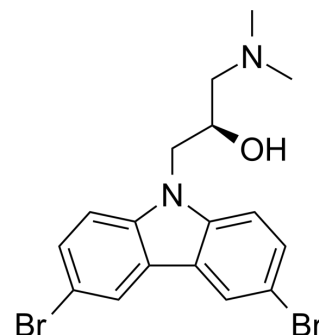


## Clathrin-IN-4

Cat. No.:	HY-152218
CAS No.:	762242-59-1
Molecular Formula:	C <sub>17</sub> H <sub>18</sub> Br <sub>2</sub> N <sub>2</sub> O
Molecular Weight:	426.15
Target:	Dynamin
Pathway:	Cytoskeleton
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 90 mg/mL (211.19 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.3466 mL	11.7330 mL	23.4659 mL
		5 mM	0.4693 mL	2.3466 mL	4.6932 mL
	10 mM	0.2347 mL	1.1733 mL	2.3466 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: ≥ 4.5 mg/mL (10.56 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.5 mg/mL (10.56 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Clathrin-IN-4 (compound 8b), a Wiskostatin (HY-12534) analogue, is a potent inhibitor of clathrin mediated endocytosis with an IC <sub>50</sub> of 2.1 μM. Clathrin-IN-4 is a dynamin I GTPase activity inhibitor with an IC <sub>50</sub> of 9.1 μM <sup>[1]</sup> .
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### REFERENCES

[1]. Peter J Cossar, et al. Wiskostatin and other carbazole scaffolds as off target inhibitors of dynamin I GTPase activity and endocytosis. Eur J Med Chem. 2022 Dec 15;247:115001.

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

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