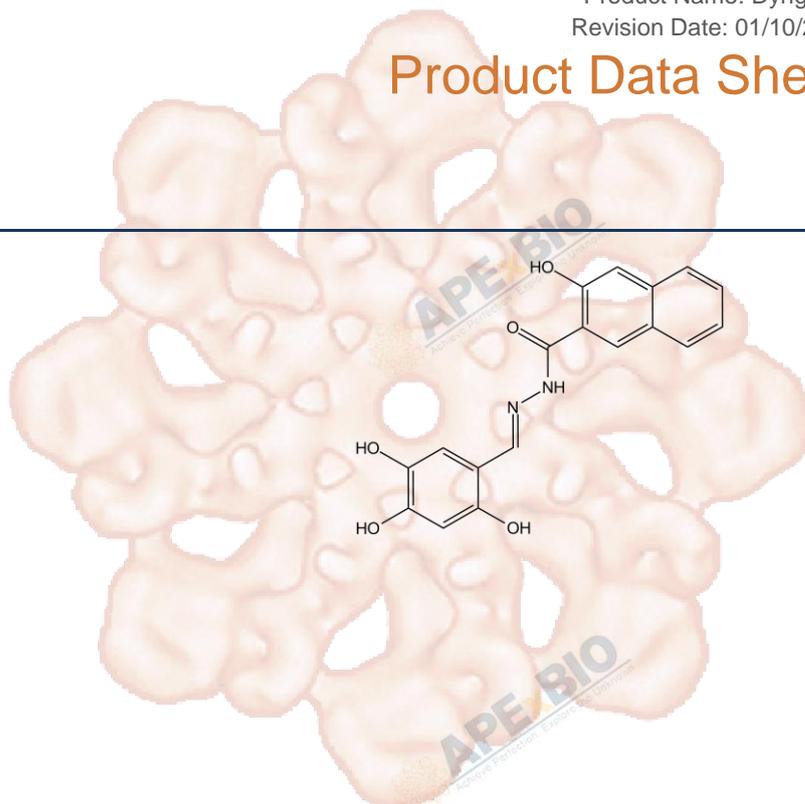


Product Data Sheet

Dyngo-4a

Cat. No.:	B5997
CAS No.:	1256493-34-1
Formula:	C ₁₈ H ₁₄ N ₂ O ₅
M.Wt:	338.31
Synonyms:	
Target:	
Pathway:	
Storage:	Store at -20°C



Solvent & Solubility

≥33.8 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.9559 mL	14.7793 mL	29.5587 mL
	5 mM	0.5912 mL	2.9559 mL	5.9117 mL
	10 mM	0.2956 mL	1.4779 mL	2.9559 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Dynamin inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	U2OS cell lines
Preparation method:	Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	1~100 μM

	Applications:	Dyngo-4a potently inhibited Tfn endocytosis with IC50 values of 5.7±1.0 µM, approximating the activity of the most potent small molecule endocytosis inhibitors previously reported.
In Vivo	Animal experiment	
	Animal models:	Female CD-1 mice
	Dosage form:	30 mg/kg, intraperitoneal injection
	Applications:	Mice injected with Dyngo-4a took significantly longer to exhibit clear signs of botulism which indicates that Dyngo-4a pretreatment provides significant protection against botulism.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1] McCluskey A, Daniel JA, Hadzic G, Chau N, Clayton EL, Mariana A, et al. Building a better dynasore: the dyngo compounds potently inhibit dynamin and endocytosis. *Traffic*. 2013;14(12):1272-89.
- [2] Harper CB, Martin S, Nguyen TH, Daniels SJ, Lavidis NA, Popoff MR, et al. Dynamin inhibition blocks botulinum neurotoxin type A endocytosis in neurons and delays botulism. *J Biol Chem*. 2011;286(41):35966-76.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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