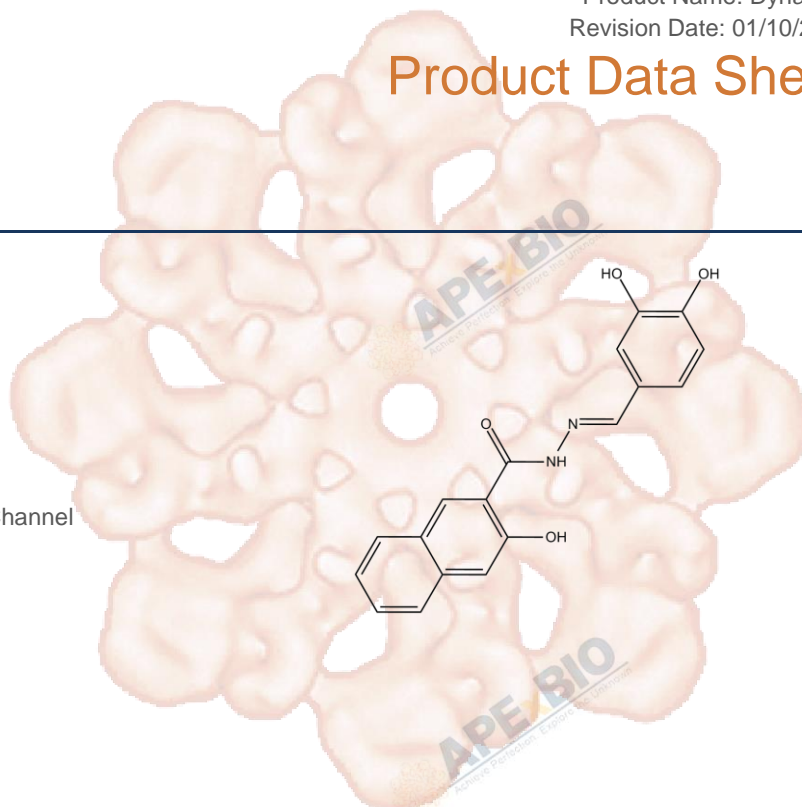


Product Data Sheet

Dynasore

Cat. No.:	A1605
CAS No.:	304448-55-3
Formula:	C ₁₈ H ₁₄ N ₂ O ₄
M.Wt:	322.31
Synonyms:	
Target:	Membrane Transporter/Ion Channel
Pathway:	ATPase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥16.12 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Mass		1mg	5mg	10mg
	Solvent	Concentration			
		1 mM	3.1026 mL	15.5130 mL	31.0260 mL
		5 mM	0.6205 mL	3.1026 mL	6.2052 mL
		10 mM	0.3103 mL	1.5513 mL	3.1026 mL

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

Biological Activity

Shortsummary

Dynamin and GTPase inhibitor

IC₅₀ & Target

15 μM (dynamin GTPase)

In Vitro

Cell Viability Assay

Cell Line: Hela cells

Preparation method: The solubility of this compound in DMSO is > 16.1 mg/mL. 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: 0, 1, 10, 20, 40, 60 and 80 μM; 30 mins

	Applications:	In HeLa cells preincubated with 80 μ M Dynasore for 30 mins, the uptake, trafficking and intracellular accumulation of transferrin were all significantly blocked. Moreover, Dynasore dose-dependently inhibited transferrin uptake. In addition, the effect of Dynasore on transferrin uptake was proved to be reversible.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Ying Wen, Shouwen Chen, et al. "Dysregulated haemolysin promotes bacterial outer membrane vesicles - induced pyroptotic - like cell death in zebrafish." Cellular Microbiology. 31 January 2019.
2. Wang H, Liu W, et al. "Inhibitor analysis revealed that clathrin-mediated endocytosis is involved in cellular entry of type III grass carp reovirus." Virol J. 2018 May 24;15(1):92.PMID:29793525
3. Mai J, Li X, et al. "DNA Thioaptamer with Homing Specificity to Lymphoma Bone Marrow Involvement." Mol Pharm. 2018 May 7;15(5):1814-1825.PMID:29537266
4. Schappe MS, Sztejn K, et al. "Chanzyme TRPM7 Mediates the Ca(2+) Influx Essential for Lipopolysaccharide-Induced Toll-Like Receptor 4 Endocytosis and Macrophage Activation." Immunity. 2018 Jan 16;48(1):59-74.e5.PMID:29343440

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References

- [1]. Macia E, Ehrlich M, Massol R, Boucrot E, Brunner C, Kirchhausen T. Dynasore, a cell-permeable inhibitor of dynamin. Dev Cell. 2006 Jun;10(6):839-50.

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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