Dynasore

Cat. No.: A1605
CAS No.: 304448-55-3
Formula: C18H14N2O4
M.Wt: 322.31
Synonyms:
Target: Membrane Transporter/Ion Channel
Pathway: ATPase
Storage: Store at -20°C

Solvent & Solubility

$\geq 16.12\text{mg/mL in DMSO}$

<table>
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<tr>
<th>Solvent Concentration</th>
<th>Mass</th>
<th>1mg</th>
<th>5mg</th>
<th>10mg</th>
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Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary: Dynamin and GTPase inhibitor

IC$_{50}$ & Target: 15 µM (dynamin GTPase)

Cell Viability Assay

In Vitro

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 µM 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:


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