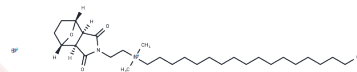


RTIL 13

## Chemical Properties

CAS No. : 1009376-10-6  
 Formula: C<sub>30</sub>H<sub>55</sub>BrN<sub>2</sub>O<sub>3</sub>  
 Molecular Weight: 571.685  
 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	RTIL 13 is a highly effective inhibitor of dynamin GTPase, exhibiting an IC <sub>50</sub> value of 2.3 μM for dynamin I GTPase. Furthermore, it selectively interacts with the pleckstrin homology lipid binding domain. This compound effectively suppresses both receptor-mediated and synaptic vesicle endocytosis, demonstrating IC <sub>50</sub> values of 9.3 μM and 7.1 μM, respectively.
Targets(IC <sub>50</sub> )	Others,Ras
In vitro	RTIL 13 effectively inhibits receptor-mediated and synaptic vesicle endocytosis, demonstrating inhibition concentrations (IC <sub>50</sub> s) of 9.3 μM and 7.1 μM, respectively[2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7492 mL	8.746 mL	17.492 mL
5 mM	0.3498 mL	1.7492 mL	3.4984 mL
10 mM	0.1749 mL	0.8746 mL	1.7492 mL
50 mM	0.035 mL	0.1749 mL	0.3498 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.

## Reference

Zhang J, et, al. From Spanish fly to room-temperature ionic liquids (RTILs): synthesis, thermal stability and inhibition of dynamin 1 GTPase by a novel class of RTILs. New Journal of Chemistry. 2008 Jan; 32(1): 1-180.  
 Ascent Scientific Launch Novel Dynamin Inhibitor Dyngo-4a™ with Children's Medical Research Institute and University of Newcastle. Tuesday, December 28, 2021.

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