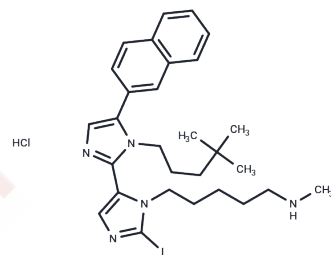


## Dim16 HCl

## Chemical Properties

CAS No. :	2743448-41-9
Formula:	C <sub>29</sub> H <sub>39</sub> ClIN <sub>5</sub>
Molecular Weight:	620.01
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Dim16 HCl is a dual inhibitor of PCSK9 and HMG-CoA reductase that exhibits an IC <sub>50</sub> value of 19 nM for PCSK9, potently blocks PCSK9-LDLR binding with an IC <sub>50</sub> of 0.8 nM, and increases LDL uptake in HepG2 cells, supporting its use in lipid metabolism and cardiovascular research.
Targets(IC <sub>50</sub> )	Others,HMG-CoA Reductase
In vitro	<b>Method:</b> Small-molecule inhibitors of the PCSK9-LDLR interaction were designed and evaluated using biochemical and cellular assays. <b>Result:</b> Compound Dim16 HCl potently inhibited PCSK9 with an IC <sub>50</sub> of 0.9 nM and showed cholesterol-lowering activity, with some analogues also inhibiting HMG-CoA reductase[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6129 mL	8.0644 mL	16.1288 mL
5 mM	0.3226 mL	1.6129 mL	3.2258 mL
10 mM	0.1613 mL	0.8064 mL	1.6129 mL
50 mM	0.0323 mL	0.1613 mL	0.3226 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

Computational Design, Synthesis, and Biological Evaluation of Diimidazole Analogues Endowed with Dual PCSK9/HMG-CoAR-Inhibiting Activity - PMC Internet. cited 2025 Dec 31. Available from: <https://pmc.ncbi.nlm.nih.gov/articles/PMC10291552/>

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481