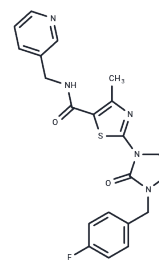


XEN723

## Chemical Properties

CAS No. : 1072803-08-7  
 Formula: C<sub>21</sub>H<sub>20</sub>FN<sub>5</sub>O<sub>2</sub>S  
 Molecular Weight: 425.48  
 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	XEN723 is a potent thiazolylimidazolidinone Stearoyl-CoA Desaturase (SCD1) inhibitor (IC <sub>50</sub> s of 45 and 524 nM in mouse and HepG2 cell, respectively).
Targets(IC <sub>50</sub> )	Dehydrogenase, Stearoyl-CoA Desaturase (SCD)
In vitro	XEN723 is a potent thiazolylimidazolidinone Stearoyl-CoA Desaturase (SCD1) inhibitor (IC <sub>50</sub> s of 45 and 524 nM in mouse and HepG2 cell, respectively). XEN723 demonstrates an improvement in SCD1 in vitro potency of more than 560-fold compare to the original high throughput screen (HTS) hit.

## Solubility Information

Solubility	DMSO: 100 mg/mL (235.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3503 mL	11.7514 mL	23.5029 mL
5 mM	0.4701 mL	2.3503 mL	4.7006 mL
10 mM	0.235 mL	1.1751 mL	2.3503 mL
50 mM	0.047 mL	0.235 mL	0.4701 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

Sun S, et al. Systematic evaluation of amide bioisosteres leading to the discovery of novel and potent thiazolyimidazolidinone inhibitors of SCD1 for the treatment of metabolic diseases. Bioorg Med Chem Lett. 2014 Jan 15;24(2):520-5.

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