

KD-026

## Chemical Properties

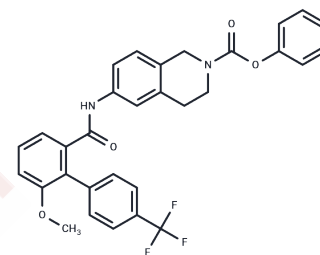
CAS No. : 913541-47-6

Formula: C<sub>31</sub>H<sub>25</sub>F<sub>3</sub>N<sub>2</sub>O<sub>4</sub>

Molecular Weight: 546.54

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	KD-026 (SLx 4090), a microsomal triglyceride transfer protein (MTP) inhibitor (IC <sub>50</sub> = 8.0 nM), is used in type 2 diabetes studies.
Targets(IC <sub>50</sub> )	Others, MTP, MTP
In vitro	KD-026 shows inhibitory effect against apolipoprotein B (IC <sub>50</sub> = 9.6 nM) but no effect on apolipoprotein A1 secretion in Caco-2 cells[1].
In vivo	In rats, KD-026 (30 mg/kg) reduced postprandial lipids by 50% (ED <sub>50</sub> = 7 mg/kg)[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (100.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.66 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.8297 mL	9.1485 mL	18.2969 mL
5 mM	0.3659 mL	1.8297 mL	3.6594 mL
10 mM	0.183 mL	0.9148 mL	1.8297 mL
50 mM	0.0366 mL	0.183 mL	0.3659 mL

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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

Enoch Kim, et al. A small-molecule inhibitor of enterocytic microsomal triglyceride transfer protein, SLx-4090: biochemical, pharmacodynamic, pharmacokinetic, and safety profile. *J Pharmacol Exp Ther.* 2011 Jun;337(3):775-85.

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