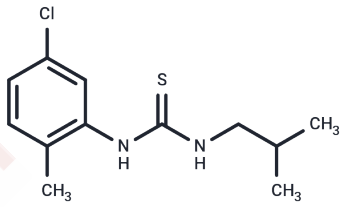
# Data Sheet (Cat.No.T24134)

HDL376

## Chemical Properties




CAS No. : 147751-31-3

Formula: C12H17ClN2S

Molecular Weight: 256.79

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 | HDL376 (SDZ HDL376) is a scavenger receptor BI inhibitor. |
| Targets(IC50) | Others |
| In vivo | HDL376 was shown to raise HDL cholesterol in the rat (normal-fed 80 mg/kg/day), hamster (normal-fed 52 mg/kg/day, chow-fed 64 mg/kg/day), dog (normal-fed 35 mg/kg/day), rhesus monkey (12 mg/kg/day), and cynomolgus monkeymodels (12 mg/kg/day)[2]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 50 mg/mL (194.71 mM),Sonication is recommended.<br>(< 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 (7.79 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.8942 mL | 19.4712 mL | 38.9423 mL |
| 5 mM | 0.7788 mL | 3.8942 mL | 7.7885 mL |
| 10 mM | 0.3894 mL | 1.9471 mL | 3.8942 mL |
| 50 mM | 0.0779 mL | 0.3894 mL | 0.7788 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

Nieland TJ, Shaw JT, Jaipuri FA, Maliga Z, Duffner JL, Koehler AN, Krieger M. Influence of HDL-cholesterol-elevating drugs on the in vitro activity of the HDL receptor SR-BI. J Lipid Res. 2007 Aug;48(8):1832-45. Epub 2007 May 28. PubMed PMID: 17533223.

Coppola GM, Damon RE, Eskesen JB, France DS, Paterniti JR Jr. Biological evaluation of 1-alkyl-3-phenylthioureas as orally active HDL-elevating agents. Bioorg Med Chem Lett. 2006 Jan 1;16(1):113-7. Epub 2005 Oct 10. PubMed PMID: 16216504.

Stevens GJ, Hitchcock K, Wang YK, Coppola GM, Versace RW, Chin JA, Shapiro M, Suwanrumpha S, Mangold BL. In vitro metabolism of N-(5-chloro-2-methylphenyl)-N'-(2-methylpropyl)thiourea: species comparison and identification of a novel thiocarbamide-glutathione adduct. Chem Res Toxicol. 1997 Jul;10(7):733-41. PubMed PMID: 9250406.



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