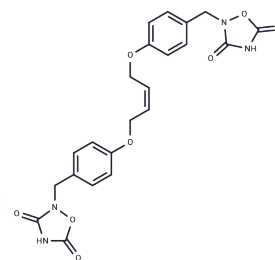


YM-440

Chemical Properties

CAS No. : 163300-58-1
 Formula: C₂₂H₂₀N₄O₈
 Molecular Weight: 468.42
 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	YM-440 is a novel hypoglycemic agent, an insulin sensitizer, that may be used for the treatment of type 2 diabetes mellitus by reducing glucose 6-phosphatase activity in obese Zucker rats and inhibiting liver glucose output through gluconeogenesis.
Targets(IC50)	Others,PPAR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1348 mL	10.6742 mL	21.3484 mL
5 mM	0.427 mL	2.1348 mL	4.2697 mL
10 mM	0.2135 mL	1.0674 mL	2.1348 mL
50 mM	0.0427 mL	0.2135 mL	0.427 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

Nakano R, Kurosaki E, Shimaya A, Kajikawa S, Shibasaki M. YM440, a novel hypoglycemic agent, protects against nephropathy in Zucker fatty rats via plasma triglyceride reduction. *Eur J Pharmacol.* 2006 Nov 7;549(1-3):185-91. PubMed PMID: 16989806.

Nakano R, Kurosaki E, Shimaya A, Shibasaki M. The novel hypoglycemic agent YM440 improves hepatic insulin resistance in obese Zucker fatty rats. *J Pharmacol Sci.* 2006 Aug;101(4):311-7. PubMed PMID: 16891767.

Kurosaki E, Nakano R, Momose K, Shimaya A, Suzuki T, Shibasaki M, Shikama H. Hypoglycemic agent YM440 suppresses hepatic glucose output via gluconeogenesis by reducing glucose-6-phosphatase activity in obese Zucker rats. *Eur J Pharmacol.* 2003 May 9;468(2):151-8. PubMed PMID: 12742522.

Kurosaki E, Nakano R, Shimaya A, Yoshida S, Ida M, Suzuki T, Shibasaki M, Shikama H. Differential effects of YM440 a hypoglycemic agent on binding to a peroxisome proliferator-activated receptor gamma and its transactivation. *Biochem Pharmacol.* 2003 Mar 1;65(5):795-805. PubMed PMID: 12628477.

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