

AMG-221

Chemical Properties

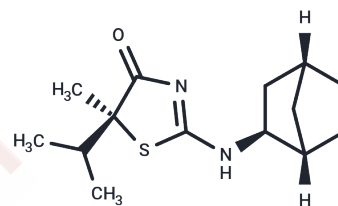
CAS No. : 1095565-81-3

Formula: C₁₄H₂₂N₂O₂S

Molecular Weight: 266.4

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	AMG-221 is a potent and selective 11β-HSD1 inhibitor. AMG-221 decreased fed blood glucose and insulin levels and reduced body weight in diet-induced obesity mice.
Targets(IC50)	Others,Dehydrogenase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7538 mL	18.7688 mL	37.5375 mL
5 mM	0.7508 mL	3.7538 mL	7.5075 mL
10 mM	0.3754 mL	1.8769 mL	3.7538 mL
50 mM	0.0751 mL	0.3754 mL	0.7508 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

Gao Q, Kimura RE, Zhang X, Nam J, Amore BM, Hickman D, Greg Slatter J, Emery MG. Intestinal and hepatic first-pass extraction of the 11 β -HSD1 inhibitor AMG 221 in rats with chronic vascular catheters. *Xenobiotica*. 2014 Mar; 44(3):264-9. doi: 10.3109/00498254.2013.769074. PubMed PMID: 23517558.

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Greene RJ, Davis JA, Subramanian R, Deane MR, Emery MG, Slatter JG. Regiospecific and stereospecific triangulation of the structures of metabolites formed by sequential metabolism at multiple prochiral centers. *Drug Metab Dispos*. 2012 May;40(5):928-42. doi: 10.1124/dmd.111.043166. PubMed PMID: 22328582.

Li A, Yuan CC, Chow D, Chen M, Emery MG, Hale C, Zhang X, Subramanian R, St Jean DJ Jr, Komorowski R, Véniant M, Wang M, Fotsch C. Synthesis and Evaluation of the Metabolites of AMG 221, a Clinical Candidate for the Treatment of Type 2 Diabetes. *ACS Med Chem Lett*. 2011 Sep 13;2(11):824-7. doi: 10.1021/ml2001467. PubMed PMID: 24900270; PubMed Central PMCID: PMC4018091.

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