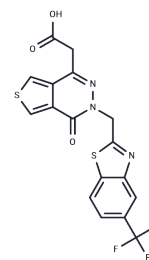


AT-007

Chemical Properties

CAS No. : 2170729-29-8
 Formula: C₁₇H₁₀F₃N₃O₃S₂
 Molecular Weight: 425.4
 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	AT-007 is an orally active CNS penetrant Aldose Reductase inhibitor for the treatment of Galactosemia (IC ₅₀ : 100 pM). It reduces toxic galactitol levels and prevents disease complications in GALT deficiency rats.
Targets(IC ₅₀)	Reductase
In vivo	AT-007 markedly reduces galactitol levels across all target tissues (liver, brain, and plasma) in GALT null rats, without elevating galactose or Gal-1P concentrations [2].

Solubility Information

Solubility	DMSO: 35.71 mg/mL (83.94 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	2.3507 mL	11.7536 mL	23.5073 mL
5 mM	0.4701 mL	2.3507 mL	4.7015 mL
10 mM	0.2351 mL	1.1754 mL	2.3507 mL
50 mM	0.047 mL	0.2351 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

Maeve Conneighton, et al. Applied Therapeutics Announces Initiation of Phase 1/2 Study of AT-007 in Galactosemia.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION. APPLIED THERAPEUTICS, INC.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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