
Product Data Sheet

Product Name: ZD-0892
Cat. No.: GC32628

Chemical Properties

Cas. No. 171964-73-1

SMILES CC(C)[C@@H](C(N1[C@H](C(N[C@H](C(C(F)(F)F)=O)C(C)C)=O)CCC1)=O)NC(C2=CC=C(OC)C=C2)=O

Formula $C_{24}H_{32}F_3N_3O_5$ M.Wt 499.52

Solubility DMSO : 250 mg/mL (500.48 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Protocol**Animal experiment:**

Rats[2]Adult male Sprague-Dawley rats (250-300 g in body weight) are induced pulmonary hypertension. In addition to a group of untreated rats, the experimental groups include rats that receive twice-daily gavage tube feedings of ZD0892, at a dose of 240 mg/kg per day or vehicle (5% polyethylene glycol or dimethyl sulfoxide). Rats are examined after 7 days of treatment. Mice[1]DBA/2 male mice 8 weeks old is used. ZD0892 is given in a dose of 60 mg/kg or 120 mg/kg[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

- [1]. Lee JK, et al. A serine elastase inhibitor reduces inflammation and fibrosis and preserves cardiac function after experimentally-induced murine myocarditis. Nat Med. 1998 Dec;4(12):1383-91.
- [2]. Cowan KN, et al. Complete reversal of fatal pulmonary hypertension in rats by a serine elastase inhibitor. Nat Med. 2000 Jun;6(6):698-702.

Background

ZD-0892 is a selective and potent inhibitor of a neutrophil elastase with K_{is} of 6.7 and 200 nM for human neutrophil elastase and porcine pancreatic elastase, respectively.

ZD0892 administration to DBA/2 mice infected with the EMC virus results in reduced myocardial elastolytic activity and coronary microvascular perfusion injury. ZD0892 decreases the pathologic severity of the myocardial lesions associated with murine viral myocarditis[1]. ZD-0892 can reverse advanced pulmonary vascular disease produced in rats[2].

[1]. Lee JK, et al. A serine elastase inhibitor reduces inflammation and fibrosis and preserves cardiac function after experimentally-induced murine myocarditis. Nat Med. 1998 Dec;4(12):1383-91. [2]. Cowan KN, et al. Complete reversal of fatal pulmonary hypertension in rats by a serine elastase inhibitor. Nat Med. 2000 Jun;6(6):698-702.

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