

Product Data Sheet

Product Name: BMS 182874

Cat. No.: GC70458

Chemical Properties

Cas. No. 153042-42-3

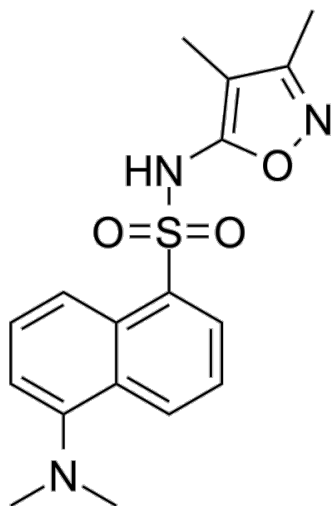
Formula $C_{17}H_{19}N_3O_3S$ M.Wt 345.42

Solubility DMSO : 125 mg/mL (361.88 mM); Storage 4°C, protect from light
Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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



Background

BMS 182874 is an orally active, highly selective endothelin receptor (ETA receptor) antagonist, with IC₅₀ value of 0.150 μM, K_i of 0.055 μM. BMS 182874 reduces the arterial pressure of Deoxycorticosterone acetate induced hypertension model in rats, and can be used for cardiovascular disease research.

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

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BMS-182874 (dimethylamino analogue 11) is an antagonist of the ET_A with **IC₅₀** value of 0.150 μ M and **K_i** of 0.055 μ M in vsm-A10 cells, and with a KB value of 0.520 μ M in rabbit carotid artery rings^[1].

BMS 182874 (100 μ M/kg, p.o.; a single oral) makes arterial pressure slowly fell by 25% from a control level. After dosing for 12 and 24 h makes arterial pressure is still 12% below the control level^[1].

References:

[1]. Abdullaha M, et.al. Methoxy-naphthyl-Linked N-Benzyl Pyridinium Styryls as Dual Cholinesterase Inhibitors: Design, Synthesis, Biological Evaluation, and Structure-Activity Relationship. ACS Omega. 2023 May 9;8(20):17591-17608.

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