BCX 1470 methanesulfonate

Cat. No.: HY-50875

CAS No.: 217099-44-0

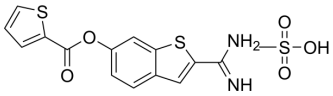
Molecular Formula: $C_{15}H_{14}N_2O_5S_3$

Molecular Weight: 398.48

Target: Complement System

Pathway: Immunology/Inflammation

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 33.33 mg/mL (83.64 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	2.5095 mL	12.5477 mL	25.0954 mL
5 mM	0.5019 mL	2.5095 mL	5.0191 mL
10 mM	0.2510 mL	1.2548 mL	2.5095 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

BCX 1470 methanesulfonate inhibits the esterolytic activity of factor D (IC_{50}=96 nM) and C1s (IC_{50}=1.6 nM), 3.4- and 200-fold better, respectively, than that of trypsin.

IC_{50} & Target

IC50: 96 nM (Factor D); 1.6 nM (C1s); 326 nM (Trypsin)

In Vitro

BCX 1470 methanesulfonate is serine protease inhibitor. BCX 1470 methanesulfonate blocks the esterolytic and hemolytic activities of the complement enzymes Cls and factor D in vitro, also blocked development of RPA-induced edema in the rat.
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Szalai AJ, et al. The Arthus reaction in rodents: species-specific requirement of complement.J Immunol. 2000 Jan 1;164(1):463-8.

[2]. Szalai AJ, et al. The Arthus reaction in rodents: species-specific requirement of complement. J Immunol. 2000 Jan 1;164(1):463-8.

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