Product Data Sheet

Product Name: TY-51469
Cat. No.: GC32004

Chemical Properties

Cas. No.	603987-59-3		
SMILES	O=C(C1=CSC(C2=CC=C(NS(=O)(C3=C(C)C4=CC(F)=CC=C4S3)=O)C(S(=O)(C)=O)=C2)=N1)O		
Formula	$C_{20}H_{15}FN_2O_6S_4$	M.Wt	526.6
Solubility	DMSO : 33.33 mg/mL (63.29 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	TY-51469		

Protocol

Animal experiment:

Rats[1] The 2-week intravenous repeated-dose toxicity study of TY-51469 was conducted in male Sprague-Dawley rats at daily doses of 0 (control), 20, and 60 mg/kg[1].Mice[1]the chymase inhibitor TY-51469 was administered daily at a dose of 0.1 or 1.0 mg/kg/day for 21 days using an osmotic pump to male 8-week-old ICR mice. The osmotic pump released the drug solution continuously at a rate of 0.3 μL/h for 21 days[2].

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References:

[1]. Takato H, et al. The specific chymase inhibitor TY-51469 suppresses the accumulation of neutrophils in the lung and reduces silica-induced pulmonary fibrosis in mice. Expert Opinion on Therapeutic Targets Volume 15, 2011 - Issue 4.

Background

TY-51469 is a chymase inhibitor with IC50s for simian and human chymases of 0.4 and 7.0 nM, respectively.

TY-51469 shows 100% stability in rat plasma at 40°C for as long as 1 hour[1]. TY-51469 suppresses the accumulation of neutrophils in the lung and reduces silica-induced pulmonary fibrosis in mice[2].

[1]. Takato H, et al. The specific chymase inhibitor TY-51469 suppresses the accumulation of neutrophils in the lung and reduces silica-induced pulmonary fibrosis in mice. Expert Opinion on Therapeutic Targets Volume 15, 2011 - Issue 4.

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