

FR 167653 free base

Chemical Properties

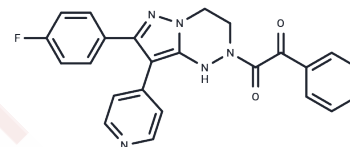
CAS No. : 158876-65-4

Formula: C₂₄H₁₈FN₅O₂

Molecular Weight: 427.43

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	FR 167653 free base is an orally active p38 MAPK inhibitor and is effective in treating inflammation, relieving trauma, and ischemia-reperfusion injury in vivo. It also is a potent suppressor of TNF- α and IL-1 β production via specific inhibition of p38 MAPK activity.
Targets(IC50)	Others, Autophagy, p38 MAPK
In vivo	FR 167653 free base (32 mg/kg; i.h.; 24-48 hours) significantly reduces acute tubular necrosis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3396 mL	11.6978 mL	23.3956 mL
5 mM	0.4679 mL	2.3396 mL	4.6791 mL
10 mM	0.234 mL	1.1698 mL	2.3396 mL
50 mM	0.0468 mL	0.234 mL	0.4679 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

Furuichi K, et al. Administration of FR167653, a new anti-inflammatory compound, prevents renal ischaemia/reperfusion injury in mice. *Nephrol Dial Transplant*. 2002 Mar;17(3):399-407.

Iwata Y, et al. p38 Mitogen-activated protein kinase contributes to autoimmune renal injury in MRL-Fas lpr mice. *J Am Soc Nephrol*. 2003 Jan;14(1):57-67.

Kawashima Y, et al. FR167653 attenuates ischemia and reperfusion injury of the rat lung with suppressing p38mitogen-activated protein kinase. *J Heart Lung Transplant*. 2001 May;20(5):568-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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