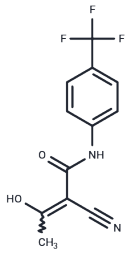
Data Sheet (Cat.No.T3044)

TargetMol®
YOUR TARGET MOLECULES

(E/Z)-Teriflunomide

Chemical Properties



CAS No. : 108605-62-5

Formula: C12H9F3N2O2

Molecular Weight: 270.21

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(E/Z)-Teriflunomide (Aubagio), a orally-available Pyrimidine Synthesis Inhibitor, is used to treat relapsing multiple sclerosis.
Targets(IC50)	Dehydrogenase
In vitro	In animal models of demyelinating diseases, Teriflunomide has demonstrated efficacy. For instance, in the black rat model of autoimmune encephalomyelitis, Teriflunomide has shown both preventive and therapeutic effects; similarly, in female Lewis rat models of Experimental Autoimmune Encephalomyelitis (EAE), it has been effective in ameliorating symptoms and reducing disease exacerbation.
In vivo	Teriflunomide acts as a dihydroorotate dehydrogenase inhibitor, thereby inhibiting the de novo synthesis of pyrimidine in rapidly proliferating cells. By suppressing highly proliferative T and B lymphocytes, Teriflunomide effectively reduces the inflammatory response to self-antigens.

Solubility Information

Solubility	DMSO: 6.25 mg/mL (23.13 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7008 mL	18.5041 mL	37.0083 mL
5 mM	0.7402 mL	3.7008 mL	7.4017 mL
10 mM	0.3701 mL	1.8504 mL	3.7008 mL
50 mM	0.074 mL	0.3701 mL	0.7402 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.

Reference

Oh J, et al. Ther Clin Risk Manag. 2013;9:177-90. doi: 10.2147/TCRM.S30947. Epub 2013 Apr 26.