

**Catalog # 10-2369**

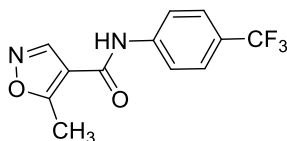
**Leflunomide**

CAS# 75706-12-6

RS-34821

5-Methyl-N-[4-(trifluoromethyl)phenyl]-4-isoxazolecarboxamide

Lot # Z101245



A pyrimidine biosynthesis inhibitor DMARD (disease-modifying antirheumatic drug)<sup>1</sup>. Displays immunomodulatory activity inhibiting the mitochondrial enzyme dihydroorotate dehydrogenase (DHODH)<sup>2</sup>. Although the molecule directly responsible for DHODH is actually A77 1726, a metabolite of Leflunomide. Rescues mice from acetaminophen-induced liver injury<sup>3</sup>.

- 1) Teschner *et al.* (2010), *Leflunomide: a drug with a potential beyond rheumatology*; Immunotherapy, **2** 637
- 2) Davis *et al.* (1996), *The immunosuppressive metabolite of leflunomide is a potent inhibitor of human dihydroorotate dehydrogenase*; Biochemistry, **35** 1270
- 3) Latchoumycandane *et al.* (2007), *Mitochondrial protection by the JNK inhibitor leflunomide rescues mice from acetaminophen-induced liver injury*; Hepatology, **45** 412

**PHYSICAL DATA**

Molecular Weight:	270.21
Molecular Formula:	C <sub>12</sub> H <sub>9</sub> F <sub>3</sub> N <sub>2</sub> O <sub>2</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

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