Catalog # 10-1436  
A77 1726  
CAS# 108605-62-5  
Teriflunomide  
2-Cyano-3-hydroxy-N-[4-(trifluoromethyl)phenyl]-2-butenamide  
Lot # L101138

![Chemical Structure Image]

A pyrimidine biosynthesis inhibitor and immunomodulator.\(^1\) Inhibits the mitochondrial dihydroorotate dehydrogenase (DHODH)\(^2\). Leflunomide is rapidly metabolized in human hepatocytes to A77 1726.\(^3\) Cell permeable.

1) Manna et al. (1999), *Immunosuppressive leflunomide metabolite (A77 1726) blocks TNF-dependent nuclear factor-kappa B activation and gene expression*; J. Immunol., 162, 2095  
2) Davis et al. (1996), *The immunosuppressive metabolite of leflunomide is a potent inhibitor of human dihydroorotate dehydrogenase*; Biochemistry, 35, 1270  
3) Seah et al. (2008), *Oxidative bioactivation and toxicity of leflunomide in immortalized human hepatocytes and kinetics of the non-enzymatic conversion to its major metabolite, A77 1726*; Drug Metab. Lett., 2, 153

**PHYSICAL DATA**

- Molecular Weight: 270.21
- Molecular Formula: C\(_{12}\)H\(_9\)F\(_3\)N\(_2\)O\(_2\)
- Purity: 98% by TLC  
- NMR: (Conforms)
- Solubility: DMSO (up to 30 mg/ml) or Ethanol (up to 5 mg/ml with warming)
- Physical Description: White solid
- Storage and Stability: Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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