

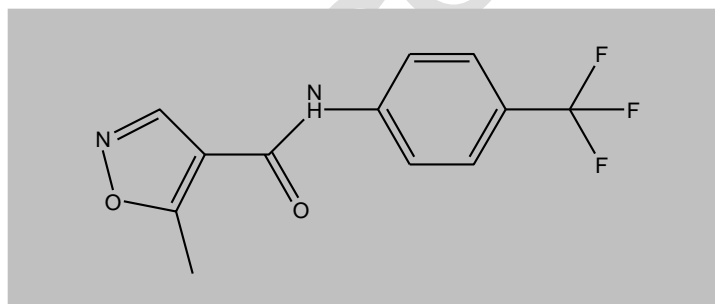
Certificate Of Analysis Quality Control Testing and Research Application

COA Preparation Date: 24/09/2013
COA Revision Date: 24/09/2016

Product: Leflunomide
Cat. No.: NB-48-0547
Batch No.: 0373BG/01
Chemical Name: 5-Methyl-N-(4-(trifluoromethyl)phenyl)-4-isoxazolecarboxamide; HWA 486

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₉F₃N₂O₂
Batch Molecular Weight: 270.21
CAS No.: [75706-12-6]
Physical Appearance: White crystalline powder
Melting Point: 166.5 - 167.5° C
Solubility: Soluble to 100 mM in DMSO or to 100 mM in ethanol
Storage: +4° C (protect from light)
Batch Molecular Structure:



Product Description: An isoxazole immunomodulatory agent that inhibits Dihydroorotate dehydrogenase ($K_i = 2.7 \mu\text{M}$, active metabolite A77 1726; Cat. No. NB-48-0547) and has antiproliferative activity. Blocks the *de novo* synthesis of pyrimidines, thus preventing the proliferation of activated T cells. A77 1726 inhibits anti-CD3/CD28-induced cytokine production in PBMC cells ($\text{IC}_{50} = 21\text{-}27 \mu\text{g/ml}$).

References: 1. Greene et al. (1995) Biochem Pharmacol 50:861; 2. Cherwinski et al. (1995) J Pharmacol Exp Ther 275:1043; 3. Magari et al. (2004) Inflamm Res 53:544; 4. White et al. (2011) Nature 471:518

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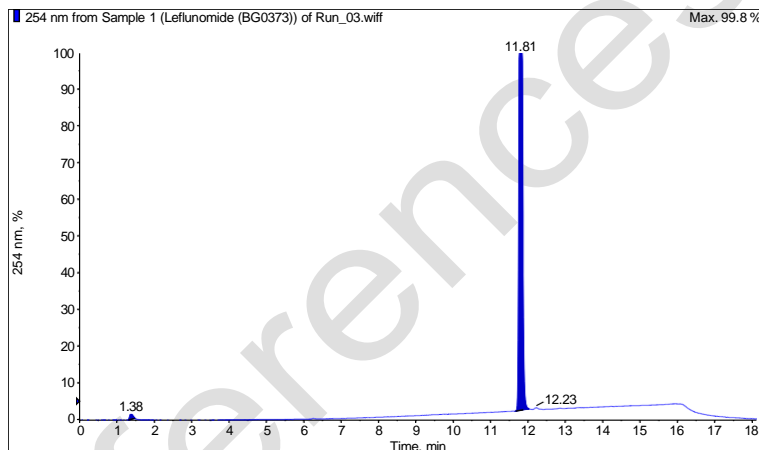
NB-48-0547 Leflunomide

2. ANALYTICAL DATA

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Loss on drying: 0.1% (complies); Residue on ignition: 0.06% (complies);
Heavy Metals: < 20 ppm (complies); HPLC Assay: 99.9% (complies).



- CAUTION - Not fully tested. For Research use only. Not for human use. –

Neo Biotech