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Certificate Of Analysis

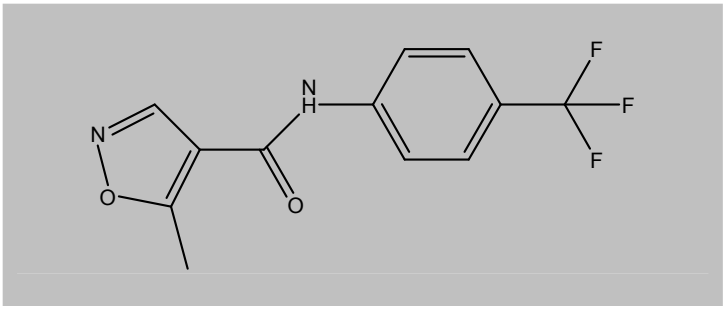
Quality Control Testing and Research Application

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

Product:	**Leflunomide**
Cat. No.:	BG0373
Batch No.:	0373BG/01
Chemical Name:	5-Methyl-N-(4-(trifluoromethyl)phenyl)-4-isoxazolecarboxamide; HWA 486

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{12}H_9F_3N_2O_2$
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 µM, active metabolite A77 1726; Cat. No. BG0506) 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 (IC_{50} = 21-27 µg/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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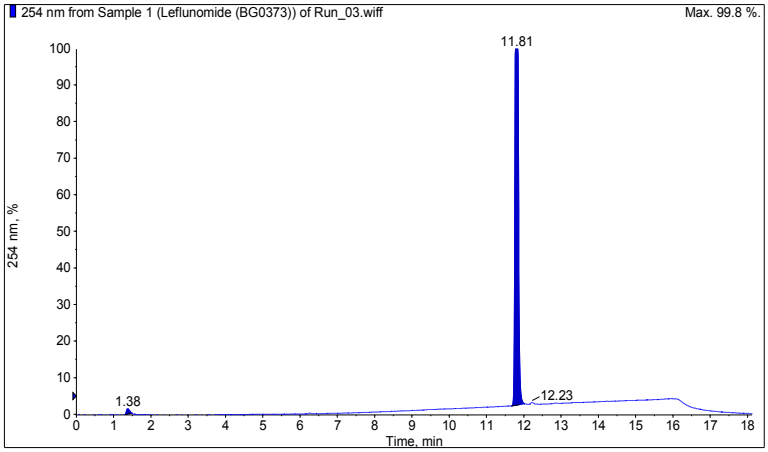
BG0373 Leflunomide

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. –