

Short note

5-Ethoxy-1-(4-methoxyphenyl)-5-methyl-3-phenylimidazolidine-2,4-dione

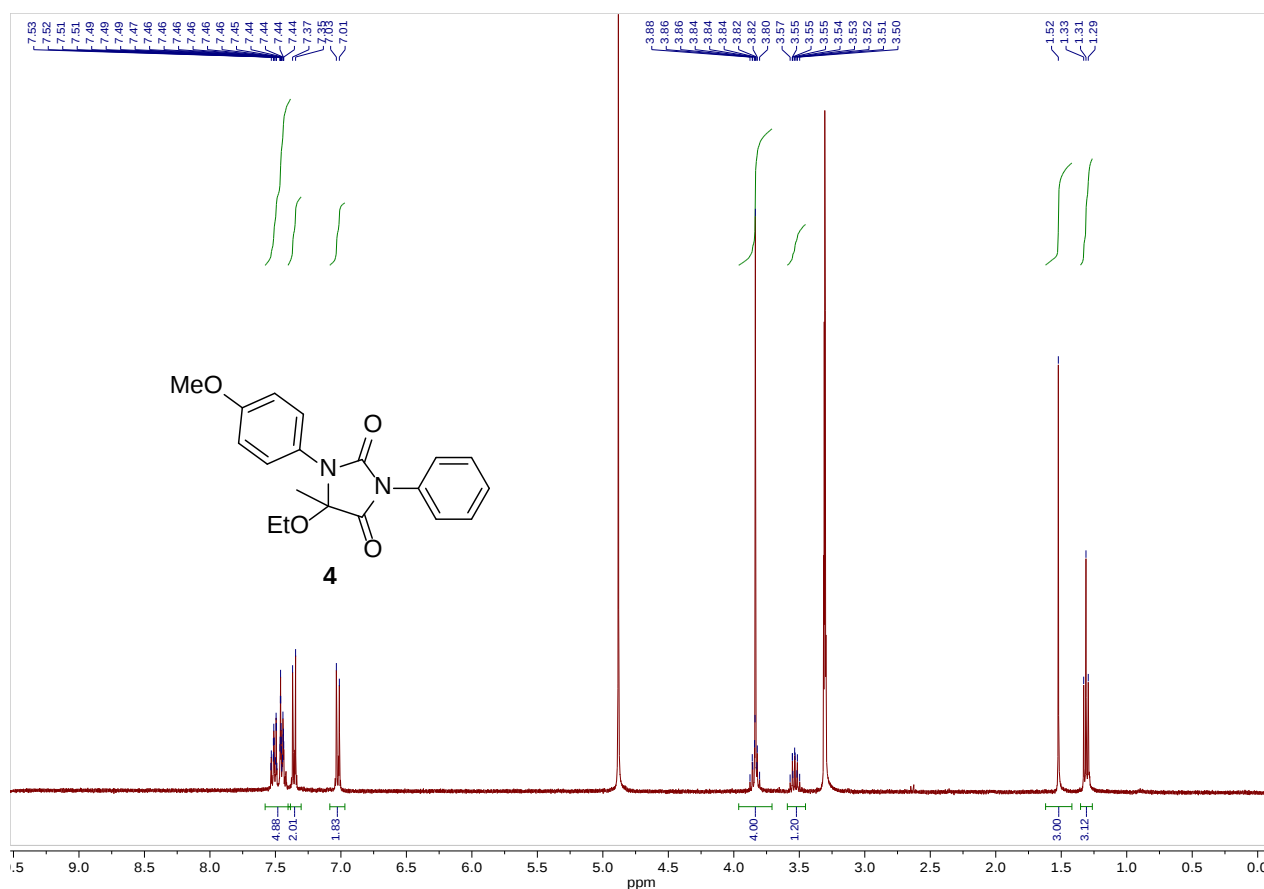
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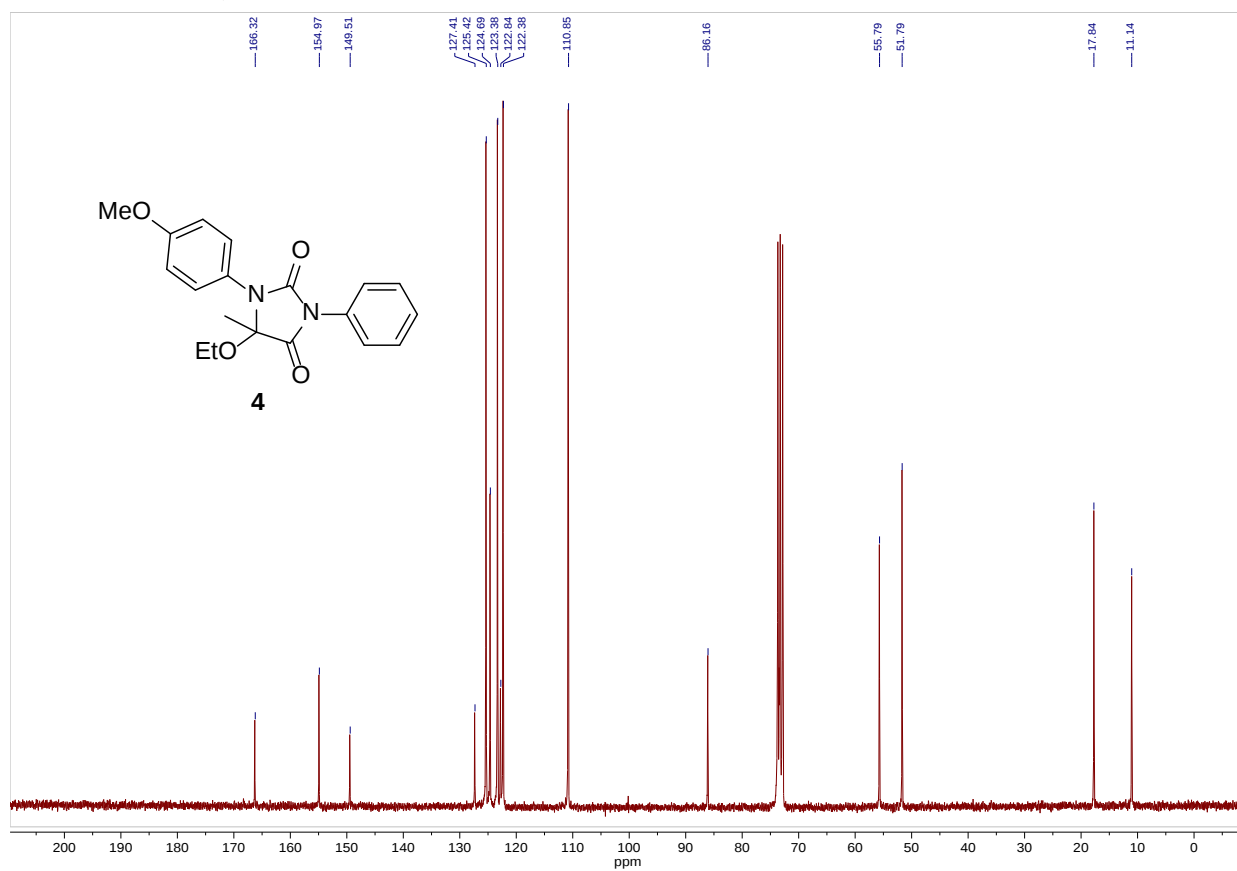
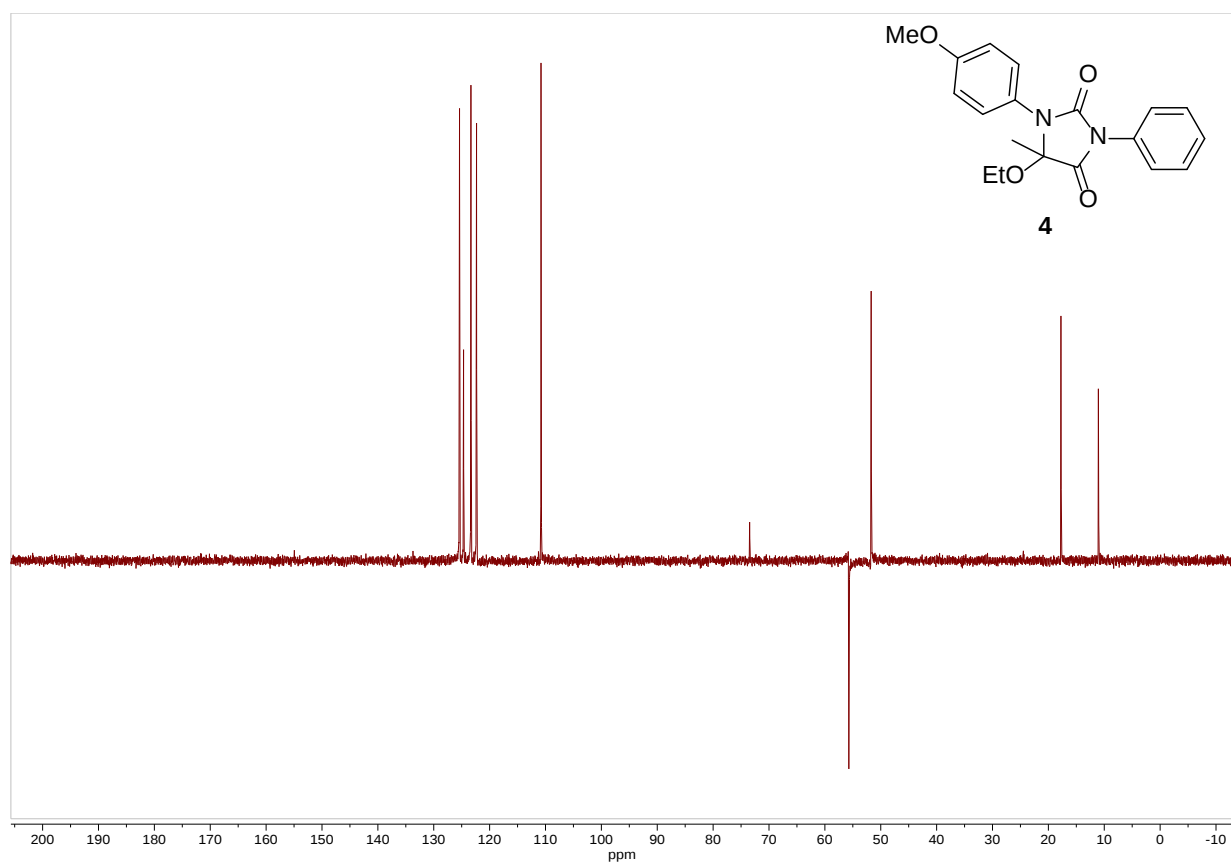
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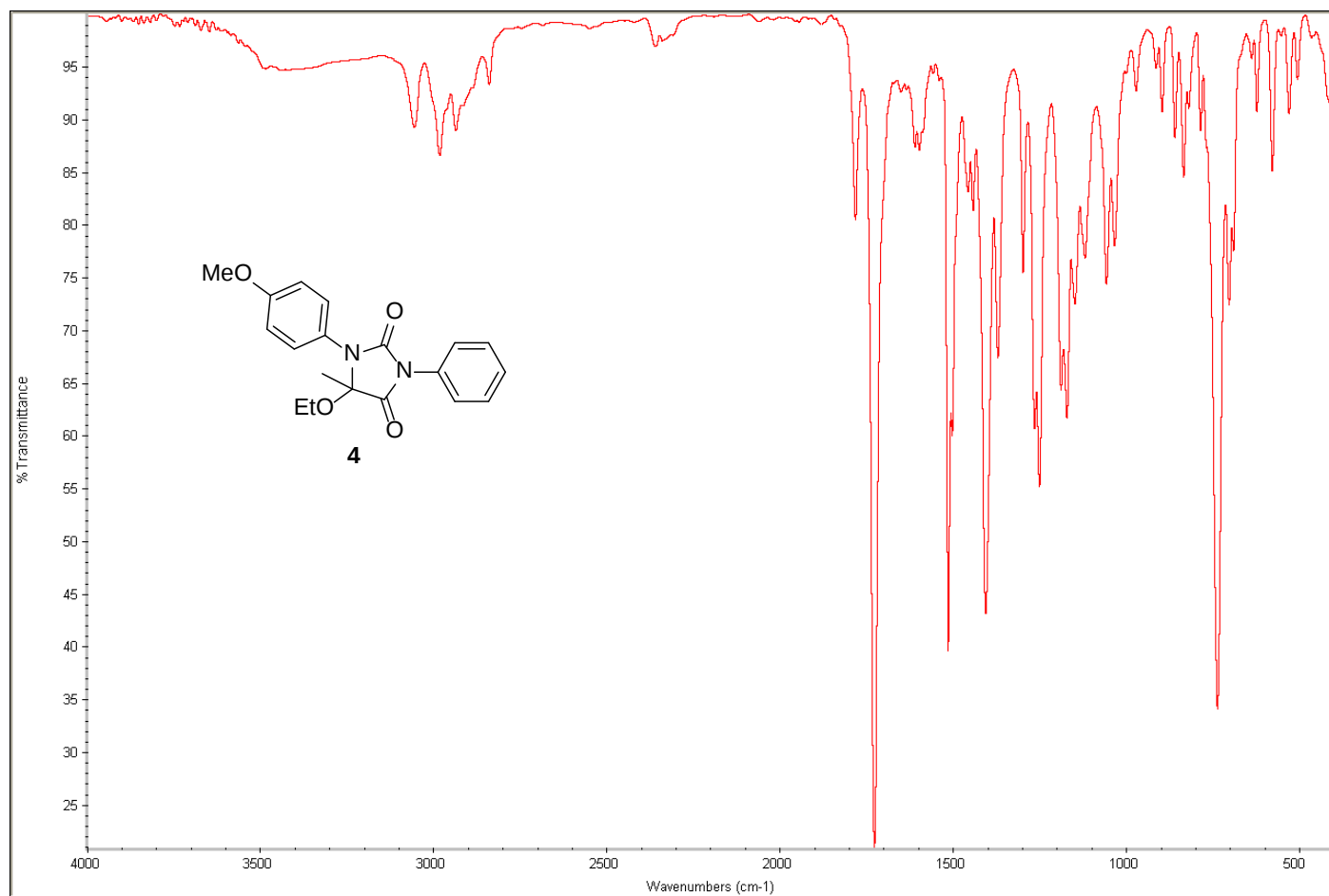
¹H-NMR, ¹³C{¹H}-NMR, DEPT{¹H}, IR and x-ray structure of hydantoin 4.

¹H NMR (400 MHz, CD₃OD)

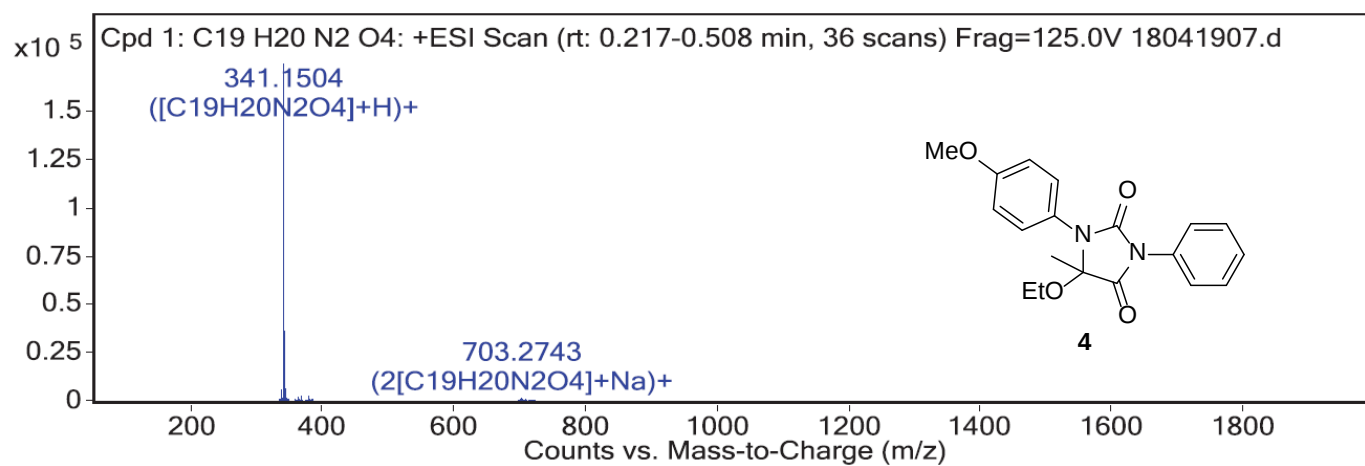


^{13}C NMR {1H} (101 MHz, CDCl_3)DEPT {1H} (101 MHz, CDCl_3)

FTIR (neat)



HRMS (ESI-TOF)



ORTEP drawing:

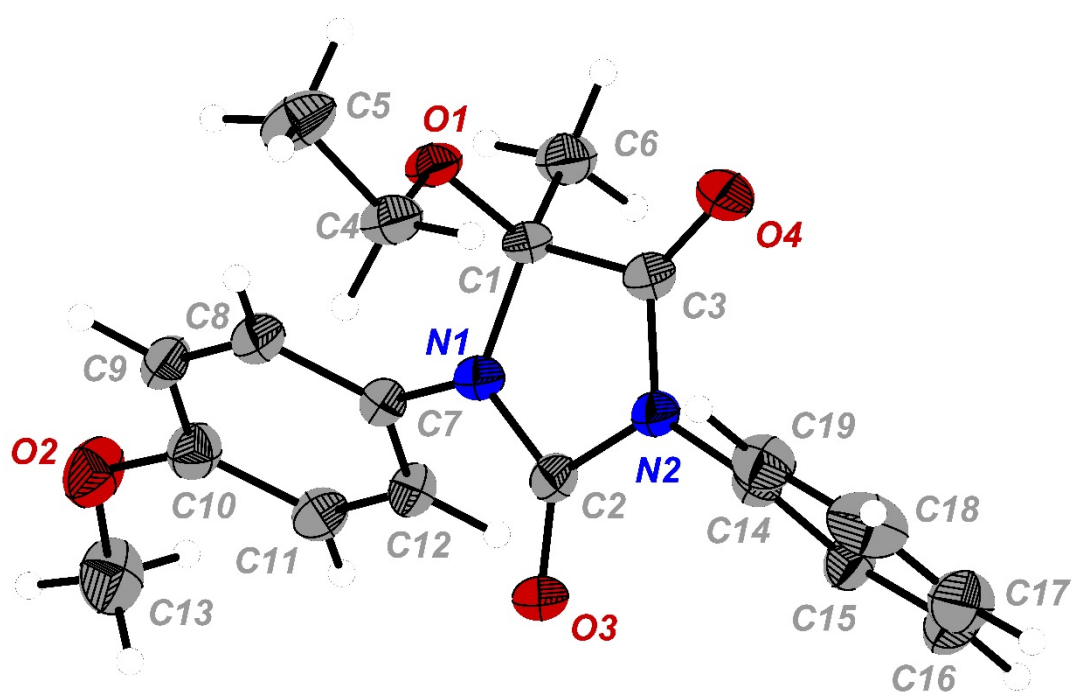


Table S1. Crystal data and structure refinement for compound 4.

Identification code	a20180173_XD152
Empirical formula	C ₁₉ H ₂₀ N ₂ O ₄
Formula weight	340.37
Temperature/K	150.00(10)
Crystal system	monoclinic
Space group	P2 ₁ /c
a/Å	12.55957(12)
b/Å	10.65990(12)
c/Å	13.02617(14)
α/°	90.0
β/°	99.1587(10)
γ/°	90.0
Volume/Å ³	1721.76(3)
Z	4
ρ _{calc} /cm ³	1.313
μ/mm ⁻¹	0.763
F(000)	720.0
Crystal size/mm ³	0.285 × 0.264 × 0.14
Radiation	CuKα (λ = 1.54184)
2θ range for data collection/°	7.13 to 137.908
Index ranges	-15 ≤ h ≤ 15, -12 ≤ k ≤ 12, -15 ≤ l ≤ 15
Reflections collected	30974
Independent reflections	3188 [R _{int} = 0.0355, R _{sigma} = 0.0146]
Data/restraints/parameters	3188/0/229
Goodness-of-fit on F ²	1.064
Final R indexes [I ≥ 2σ (I)]	R ₁ = 0.0451, wR ₂ = 0.1140
Final R indexes [all data]	R ₁ = 0.0470, wR ₂ = 0.1155
Largest diff. peak/hole / e Å ⁻³	0.52/-0.19