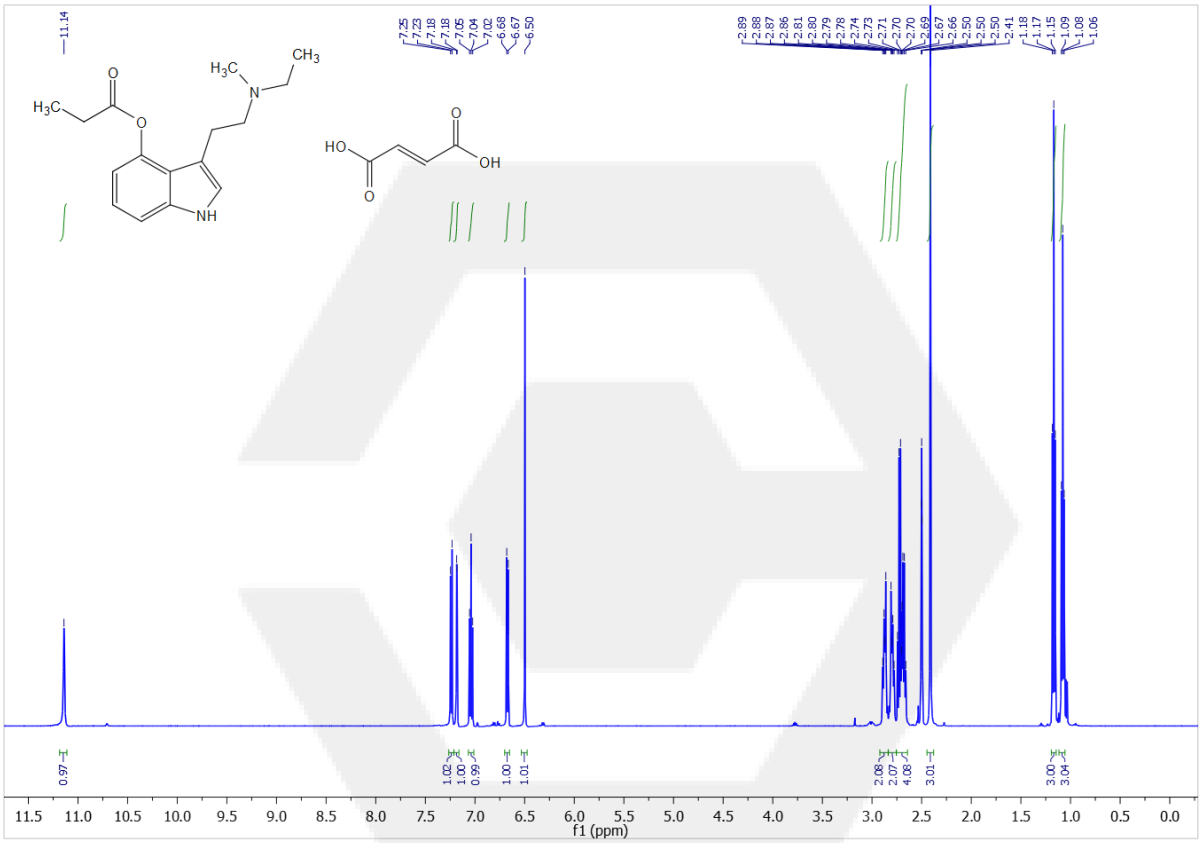
## $^1$H NMR analysis report

**Batch No.:** 4PRM-01 **Date:** 12/2/2026

**Instrument:** Bruker 500 MHz
**Solvent:** dimethylsulfoxide-$d_6$ (DMSO-$d_6$; spectra cal. to residual solvent peak, δ = 2.50 ppm)

**Results:**
Data consistent with the proposed structure: Yes
Estimated purity: 98%



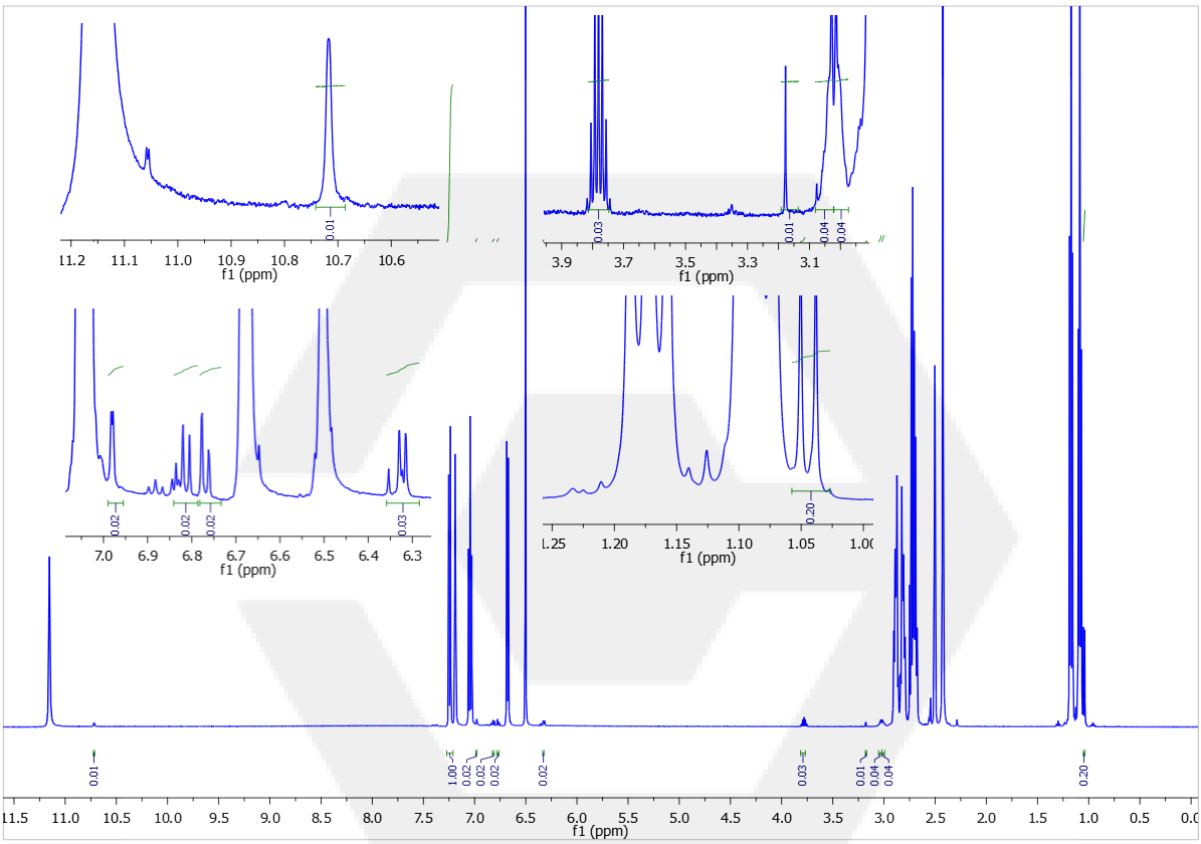

$^1$H NMR (DMSO-$d_6$), cmpd integrated.

**$^1$H NMR (500 MHz, DMSO-d$_6$) δ (ppm):** 11.14 (bs, 1H), 7.24 (d, *J* = 8.0 Hz, 1H), 7.19 (d, *J* = 2.1 Hz, 1H), 7.04 (t, *J* = 7.9 Hz, 1H), 6.68 (d, *J* = 7.5 Hz, 1H), 6.50 (s, 1H), 2.93 – 2.84 (m, 2H), 2.84 – 2.77 (m, 2H), 2.76 – 2.65 (m, 4H), 2.41 (s, 3H), 1.17 (t, *J* = 7.5 Hz, 3H), 1.08 (t, *J* = 7.2 Hz, 3H).

**Notes:**

The NMR spectrum corresponds to the expected structure – 4-PrO-MET [IUPAC: 3-(2-(ethyl(methyl)amino)ethyl)-1*H*-indol-4-yl propionate]. The compound is present as fumarate (hemifumarate, 4-PrO-MET:fumaric acid 2:1); confirmed by signal integration (Ar-H vs. fumarate CH=CH at δ = 6.50 ppm).

The sample contains approximately 1–2% of an unidentified impurity with a structure closely related to 4-PrO-MET. In addition, residual solvents were detected: isopropyl alcohol (0.52% w/w) and methyl tert-butyl ether (0.09% w/w).




$^{1}$H NMR (DMSO-$d_6$), impurities integrated (+ insets).