Supplementary Material (ESI) for Chemical Communications

Structural data for $_{L}$-leucine hydrochloride monohydrate:

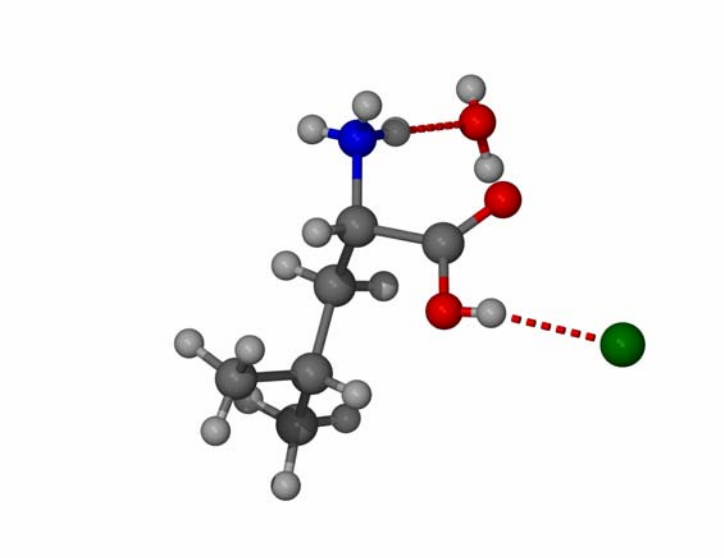

Figure 1. Ball and stick representation of the asymmetric unit found in the crystal structure of $_{L}$-leucine hydrochloride monohydrate showing hydrogen bonding between the structural components.

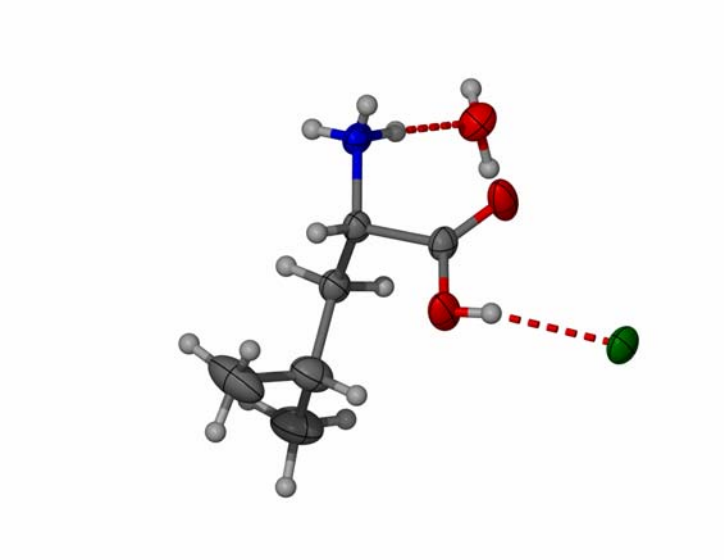

Figure 2. The asymmetric unit found in the crystal structure of $_{L}$-leucine hydrochloride monohydrate, anisotropic displacement parameters shown at the 50% level. Hydrogen bonding between structural components is also shown.

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Table 1. Crystal data and structure refinement for $_{L}$-leucine hydrochloride monohydrate.

Identification code	$_{L}$-Leucine hydrochloride monohydrate
Formula	$C_6H_{16}ClNO_3$
Formula weight	185.65
Size	0.46 x 0.18 x 0.08 mm
Crystal morphology	Colourless plate
Temperature	150(2) K
Wavelength	0.71073 Å [Mo-K_α]
Crystal system	Orthorhombic
Space group	$P2_12_12_1$
Unit cell dimensions	a = 6.2563(13) Å α = 90°
	b = 6.3951(13) Å β = 90°
	c = 26.865(5) Å γ = 90°
Volume	1074.9(4) Å^3
Z	4
Density (calculated)	1.147 Mg/m^3
Absorption coefficient	0.325 mm^{-1}
F(000)	400
Data collection range	3.34 ≤ θ ≤ 27.5°
Index ranges	$-8 \le h \le 4$, $-7 \le k \le 4$, $-11 \le l \le 33$
Reflections collected	1746
Independent reflections	1473 [R(int) = 0.0678]
Observed reflections	1299 [$I > 2\sigma(I)$]
Absorption correction	multi-scan
Max. and min. transmission	0.949 and 0.104
Refinement method	Full
Data / restraints / parameters	1473 / 0 / 164
Goodness of fit	1.033
Final R indices [$I > 2\sigma(I)$]	R_1 = 0.0343, wR_2 = 0.0777
R indices (all data)	R_1 = 0.0418, wR_2 = 0.0818

Largest diff. peak and hole	0.159 and -0.167e.Å^{-3}
Absolute structure parameter	-0.01(9)