(E,E)-4-[4-[3-(4-Chloro-anilino)-1-hydroxy-but-2-enyl-idene]-3-methyl-5-oxo-4,5-dihydro-1H-pyrazol-1-yl]-benzene-sulfonamide

Abstract
The molecule of the title compound, C_{20}H_{19}ClN_{4}O_{4}S, features a central pyrazole ring that possesses a benzene substituent, as well as a conjugated \textbf{C}_-C=C_-C_ methyl substituent. The benzene ring is slightly twisted [dihedral angle = 7.7 (2)°] with respect to the five-membered ring; the mean plane of the zigzag \textbf{C} = \textbf{C} = \textbf{C} fragment [torsion angle = 178.0 (4)°] is also slightly twisted [dihedral angle = 10.6 (4)°]. The amine and hydroxy groups form intramolecular hydrogen bonds. The amide group uses one of its H atoms to form a hydrogen bond to the sulfamyl O atom of an inversion-related molecule. Adjacent dimers are further linked by an N-Hamide \textbf{N}pyrazole hydrogen bond to generate a linear chain. The crystal studied is a nonmerohedral twin with a minor twin component of 25.6 (2)%.

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