## CRYSTAL STRUCTURE OF 1,5-BIS(2-HYDROXY-3-METHOXYBENZYLIDENE)CARBOHYDRAZIDE

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**Abstract.** The solid-state structure of a symmetrical carbohydrazone, namely 1,5-bis(2-hydroxy-3-methoxybenzylidene)carbonohydrazide (1) was determined by X-ray single crystal diffraction and infrared spectroscopy. It crystallizes in the monoclinic space group  $P2_1/n$  with unit cell parameters a=10.1198(6), b=22.7847(11), c=15.1738(10) Å,  $\beta=100.458(6)^\circ$ , Z=4, V=3440.6(3) Å<sup>3</sup>,  $R_1=0.0540$ . Crystal structure of 1 is defined by two crystalographic independent molecules, which are bonded via N-H···O hydrogen bond. There organic molecules are a mixture of *syn* and *anti* conformers in keto-amino tautomeric form of the central carbamide fragment. 1D and 2D NMR experiments have argued on the presence of the title compound in DMSO- $d_6$  solution mostly in *syn* conformation as keto tautomer regarding carbamide unity and enol-imino form when considering its aldehyde residue.