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1-[(Z)-2-Phenylhydrazin-1-ylidene]-1-(piperidin-1-yl)propan-2-one

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Abstract: A *Z* configuration about the imine bond [1.3025 (18) Å] in the title compound, C₁₄H₁₉N₃O, allows for the formation of an intramolecular N-H...N hydrogen bond between the hydrazone H and piperidine N atoms; the carbonyl group is disposed to lie over the piperidine residue, which is in a chair form. A twist between the terminal benzene ring and the hydrazine residue is seen [N-N-C-C torsion angle = 163.81 (12)°]. Helical supramolecular chains along the *c* axis mediated by N-H...O hydrogen bonds are the most prominent feature of the crystal packing. The chains are connected into layers lying in the *ac* plane by weak C-H...π contacts involving two methylene H atoms and an adjacent benzene ring.