

## Synthesis and Characterization of *N*-(4-(Piperidin-4-ylsulfonyl)phenyl)5-vinylpyrimidin-2-amine

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**ABSTRACT** Target product *N*-(4-(piperidin-4-ylsulfonyl)phenyl)5-vinylpyrimidin-2-amine (**13**) was synthesized using 6-oxopyran-3-carbaldehyde (**M1**) and 4-hydroxypiperidine (**M2**) as starting materials by a series of nucleophilic substitution and oxidation. Different acid-binding agents were discussed to explore the effect on the yield of compound **12**. The structures of products were characterized by <sup>1</sup>H NMR and mass spectra.

**KEYWORDS** 4-Hydroxypiperidine, 6-oxopyran-3-carbaldehyde, *N*-(4-(piperidin-4-ylsulfonyl)phenyl)5-vinylpyrimidin-2-amine, Pharmaceutical intermediate, Synthesis.

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