(2-Amino-4,5-dimethoxyphenyl)-(5-methylfuran-2-yl)methanone

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A mixture of ketone 1 (1.00 g, 5 mmol) [1], iron powder (1.39 g, 24 mmol), glacial acetic acid (1.02 mL, 18 mmol), water (5 mL) and ethyl acetate (5 mL) was refluxed with stirring for 4-5 h (TLC monitoring). After that, the reaction mixture was neutralized with NaHCO$_3$, and the solid was filtered off. The solid was thoroughly washed with hot ethyl acetate. The filtrate was dried with Na$_2$SO$_4$, the solvent was evaporated under reduced pressure and the residue was recrystallized from the mixture of ethyl acetate:petroleum ether (1:0.6) to yield title compound 2 as pale yellow crystals (1.1 g, 85 %).

Mp: 160-161 °C.

IR (KBr): 3350, 1685, 1635 cm$^{-1}$.

$^1$H NMR (CDCl$_3$, 60 MHz, ppm): 2.42 (s, 3H, CH$_3$), 3.82 (s, 3H, OCH$_3$), 3.90 (s, 3H, OCH$_3$), 5.96 (s, 2H, NH$_2$), 6.18 (d, 1H, J = 3.2, 3-H$_{\text{Fur}}$), 6.20 (s, 1H, H$_{\text{Ar}}$), 7.04 (d, J = 3.2, 4-H$_{\text{Fur}}$), 7.56 (s, 1H, H$_{\text{Ar}}$).

Anal. calc. for C$_{14}$H$_{15}$NO$_4$: C 64.36, H 5.79, N 5.36; Found: C 64.39, H 5.66, N 5.47.

Reference:

1. Mel'chin, V.V. *Molecules* 2003, M342.

Sample availability: available from the authors.

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