**2-Chloro-6-hydrazinylpyrazine, OSM-S-302**



Representative example: <http://malaria.ourexperiment.org/uri/864>

2,6-dichloropyrazine (21.0 g, 141 mmol, 1.0 equiv.) was dissolved in EtOH (282 mL, 0.50 M) and hydrazine hydrate (13.5 mL, 270 mmol, 2.0 equiv.) was added. The reaction mixture was stirred at reflux for 16 h. The solvent was removed under reduced pressure to give a pale yellow solid. Water (~200 mL) and EtOAc (~300 mL) were added, and the mixture was shaken in an attempt to dissolve all solid. The organic layer was removed and the aqueous layer extracted with EtOAc (3 × 150 mL). The combined organic layers were washed with brine (~30 mL) and then concentrated under reduced pressure to give the crude title compound as a yellow solid (18.1 g, 125 mmol, 89% yield); **m.p.** 130–131 ˚C; **IR** νmax (film) /cm-1 3210, 3075, 1566, 1544; **­­1H NMR** (200 MHz, DMSO-d*6*) δ: 8.04 (1H, s), 7.72 (1H, s), 6.74 (1H, bs), 4.39 (2H, s); **m/z** (APCI+) 145 [M+H]+.

*ClC1=CN=CC(NN)=N1*

*InChI=1S/C4H5ClN4/c5-3-1-7-2-4(8-3)9-6/h1-2H,6H2,(H,8,9)*

Data consistent with the literature.[[1]](#endnote-1) (although NMR in dmso so prob should compare or get more data)

1. Bradac J, Furek Z, Janezic D, Molan S, Smerkolj I, Stanovnik B, Tisler M, Vercek B (1977) Telesubstitution and other transformations of imidazo[1,2-a]- and s-triazolo[4,3-a]pyrazines. *J. Org. Chem.*, 42:4197–4201. (10.1021/jo00862a005)   [↑](#endnote-ref-1)