Supplementary Material

Potassium fluoride catalysed multicomponent approach to medicinally privileged 5-[3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl] substituted chromeno[2,3-b]pyridine scaffold

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1H and 13C NMR spectra of novel 5-[3-hydroxy-6-(hydroxymethyl)-4H-pyran-2-yl] substituted chromeno[2,3-b]pyridines 2a-j .................................................................S2
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]-pyridine-3-carbonitrile (2a)
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-7-methyl-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2b).
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-9-methoxy-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2c).
2,4-Diamino-8-hydroxy-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2d).
2,4-Diamino-7-chloro-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyranyl-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2e).
2,4-Diamino-7-bromo-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2f).
2,4-Diamino-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-7-nitro-5H-chromeno-[2,3-b]pyridine-3-carbonitrile (2g).

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\text{HO-} \overset{\text{O}}{\text{O}} \overset{\text{NH}_2}{\text{C}} \text{N} \text{CN}
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\text{O}_2\text{N} \overset{\text{NH}_2}{\text{N}} \text{NH}_2
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2,4-Diamino-7,9-dichloro-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2h).
2,4-Diamino-7-bromo-5-(3-hydroxy-6-(hydroxymethyl)-4-oxo-4H-pyran-2-yl)-9-methoxy-5H-chromeno[2,3-b]pyridine-3-carbonitrile (2i).
$^1\text{H}-^\text{13}\text{C}$ HSQC for 2d
$^1$H-$^1$C HMBC for 2d