

# **Novel Selective 5-HT<sub>3</sub> Receptor Ligands: Facile Generation Methods for 2-Amino- and 4-Aminopyrido[4',3':4,5]thieno[2,3-d]pyrimidines**

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This work reports on the synthesis of new 2-amino- and 4-aminopyridothienopyrimidines, with a view to identify potent and selective ligands for the 5-HT<sub>3</sub> receptor, starting from derivatives of 2-aminothiophene-3-carboxylic ester, -3-carboxamide, or 2-amino-3-cyanothiophene.

*Key words:* 5-HT<sub>3</sub> Receptor, Aminopyridothienopyrimidines, Cyclodesulfurization, Diazotization