

# Synthese neuer Pyridin-, Pyrindin- bzw. Isochinolin-substituierter $\alpha$ - und $\beta$ -C-Nukleoside der 2-Desoxy-D-ribose

Synthesis of Novel Pyridine-, Pyrindine- and Isoquinoline-Substituted  $\alpha$ - and  $\beta$ -C-Nucleosides of 2-Deoxy-D-ribose

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$\alpha, \beta$ -C-Nucleosides, Inverse Type Cycloadditions, 1,2,4-Triazine-C-nucleosides, 2-Deoxy-D-ribose, 2'-Deoxy- $\beta$ -D-ribofuranosyl-pyridine

The novel imido esters of 2-deoxy- $\alpha$ - and - $\beta$ -D-ribose **8** and **9** have been synthesized and successfully transformed to the protected 1,2,4-triazine-C-nucleosides **11** and **12** using an inverse type Diels-Alder reaction with the 1,2,4,5-tetrazine **10**. The electron deficient diazadiene system of both C-nucleosides **11** and **12** proved to be highly reactive in a consecutive [4+2] cycloaddition with inverse electron demand towards several electron rich dienophiles yielding after successful deprotection the novel pyridine-, pyrindine- and isoquinoline-C-nucleosides **15**, **18** and **21** of 2-deoxy- $\alpha$ -D-ribose and **23**, **25** and **27** of 2-deoxy- $\beta$ -D-ribose.

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