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# [eBooks] Synthesis Of 2 Amino Lna A New Strategy

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### **Synthesis of 2 -amino-LNA: a new strategy†**

Synthesis of 2 -amino-LNA: a new strategy† Christoph Rosenbohm, a Signe M Christensen, a Mads D Sørensen, b Daniel Sejer Pedersen, †a Lotte-Emilie Larsen, a, b Jesper Wengel, c and Troels Koch\* a a Cureon A/S, Fruebjergvej 3, DK-2100 Copenhagen, Denmark E-mail: tk@cureoncom; Fax: 45 7026 0097; Tel: 45 7026 0096 b Department of Chemistry, University of Copenhagen, Universitetsparken 5, ...

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LNA

### **Synthesis of Oligonucleotides Containing 2'-N ...**

Synthesis of 2 -N-substituted 2 -amino-LNA in oligonucleotides by post-synthetic modification using click chemistry and amidation We considered that 2 -amino-LNA bearing an active carbamate, like a pentafluorophenyl carbamate, could be converted into 2 -N-alkylaminocarbonyl-2 -amino-LNA (2 -urea-LNA) via the post-synthetic treatment with amines With this method, various amines that are

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### **LNA: a versatile tool for therapeutics and genomics**

h Singh, SK et al (1998) Synthesis of 20-amino-LNA: a novel conformationally restricted high-affinity oligonucleotide analogue with a handle J Org Chem 63, 10035-10039 Fig 1 The LNA molecular family TRENDS in Biotechnology O Base O=P-O- O=P-O- O=P-O- O=P-O- O=P-O- O=P-O- O=P-S- O=P-O- O O O O O Base O Base O  $\alpha$ -L-LNA [a]  $\alpha$ -LNA [b] Xylo-LNA [c] O O Base O

**Syddansk Universitet A chemical synthesis of LNA-2,6 ...**  
additional amino group at position 2 relative to adenine results in formation of a third hydrogen bond when interacting with uridine New method for chemical synthesis of protected 30-O-phosphoramidite of LNA-2,6-diaminopurine riboside is described The derivatives of 20-O-methyl-2,6-diaminopurine and LNA-2,6-diaminopurine ribosides were used to

**Supporting Information Nucleic Acids in Cells**  
The corresponding phosphoramidite of 2'-N-(pyren-1-yl)carbonyl-2'-amino-LNA thymine monomer X was obtained as previously outlined S1 Automated synthesis of 2'-N-(pyren-1-yl)carbonyl-2'-amino-LNA was performed on 02  $\mu$ mol scale using standard conditions for

**Syddansk Universitet Synthesis and Excellent Duplex ...**

molecules Article Synthesis and Excellent Duplex Stability of Oligonucleotides Containing 20-Amino-LNA Functionalized with Galactose Units Rajesh Kumar 1,2, Annika Ries 1 and Jesper Wengel 1,\* 1 Biomolecular Nanoscale Engineering Center, Department of Physics, Chemistry and Pharmacy, University of Southern Denmark, Campusvej 55, 5230 Odense M, Denmark;

**Perylene Attached to 2' -Amino -LNA: Synthesis ...**  
Perylene Attached to 2' -Amino -LNA: Synthesis, Incorporation into Oligonucleotides and Remarkable Fluorescence Properties In Vitro and in Cell Culture Irina V Astakhova, Vladimir A Korshun, Kasper Jahn, Jørgen Kjems and Jesper Wengel \* SUPPORTING INFORMATION S2 MALDI -MS of synthesized oligonucleotides ( Table S1 ) S3 Thermal denaturation curves (Fig ure S 1) S4 UV ...

**Synthesis, Photophysical and Electronic Properties**

**of Mono ...**

Synthesis, Photophysical and Electronic Properties of Mono-, Di-, and Tri-Amino-Substituted Ortho-Perylenes, and Comparison to the Tetra-Substituted Derivative Julia Merz,[a] Lena Dietrich,[a] Jörn Nitsch,[a] Ivo Krummenacher,[a] Holger Braunschweig,[a] Michael Moos,[b] David Mims,[b] Christoph Lambert,[b] and Todd B Marder\*[a] Abstract: We synthesized a series of new mono-, di-, tri- and tetra

**Oligonucleotides containing a piperazino-modified 2'-amino ...**

20-amino-LNA monomer (PipLNA-T; Fig 1) by combining the advantageous characteristics of the 2'-amino-LNA and piperazino scaffolds Synthesis of the PipLNA-T phosphoramidite monomer 5 was accomplished in three steps from 3-piperazino propionic acid (1) and a DMTr-protected 20-amino-LNA-T precursor 322 (Scheme 1)

**Electronic Supplementary Material (ESI) for**  
Amino acids attached to 2'-amino-LNA: Synthesis and increased duplex stability Marie W Johannsen, Lia Crispino, Michael C Wamberg, Neerja Kalra, and Jesper Wengel\* Nucleic Acid Center, Department of Physics and Chemistry, University of Southern Denmark, Campusvej 55, DK-5230 Odense M, Denmark E-mail: jwe@ifkstudk Table S1 MALDI TOF Mass spectrometry data for modified ONs ...

**Locked nucleic acids: a family of high affinity nucleic ...**

Oxy-LNA Thio-LNA Amino-LNA Figure 2 Chemical structure of the oxy-LNA and the thio-/amino-LNA analogues In 1997 Obika et al [5] disclosed the synthesis of the 2-O-CH 2-4 bicyclic nucleoside in which the conformation due to the bicyclic structure is locked in the N-conformation, and in the same year Wengel et al [6, 7] prepared the first LNA (locked nucleic acid) and showed the

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2-100 bases 020  $\mu$ mol 100 -20 5-0110-013 2-100 bases 100  $\mu$ mol 500 -100 5-0110-014 2- 40 bases 1500  $\mu$ mol 6000 -1200 5-0110-015 \*\* For a 2mer with uniform base composition Set up for 3'- or special wobbles Standard

wobbles (wobbles are equimolar mixtures of 2 to 4 bases) are auto-

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2 (fc 39 mM), KOAc (fc 150 mM), amino acids (100  $\mu$ M), spermidin (fc 025 mM), DTT (25 mM) and energy generation components including creatine phosphokinase (fc 01 mg/ml), creatine phosphate (20 mM), ATP (175 mM) and GTP (03 mM) If not reported otherwise, 60 ng/ $\mu$ l of plasmid DNA was added to the translation reaction To enable DNA transcription to mRNA during cell-free protein

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