

# Synthesis Of 2 Amino Lna A New Strategy

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

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### Synthesis Of 2 Amino Lna

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

LNA and 2 -amino-LNA and 2 -thio-LNA refer to the analogues where the 2 -oxygen has been substituted by respectively a nitrogen atom or a sulfur atom that they can be synthesised by efficient and convergent syn-thesis strategies The first synthesis of an LNA nucleoside was performed by a linear approach using uridine as starting material,10

#### **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 ...

#### **Synthesis Of 2 Amino Lna A New Strategy**

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#### **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 INFORMATI ON S2 MALDI -MS of synthesized oligonucleotides ( Table S1 )

#### **Supp Amino LNA**

An alternative synthesis of azide 17 providing orthogonal protection groups is presented below This was the original approach for the synthesis of 2-amino-LNA However, due to problems in the critical triflation and azide substitution steps it was abandoned in favour of the mesylate strategy presented in ...

**Oligonucleotides Containing 2 Functionalized with ...**

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;

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**Oligodeoxynucleotides containing 2-amin-LNA ...**

B) Chemical structures of phosphodiester monomers of LNA, 4 and 20-amino LNA, 5 Structure 6 shows the 20-amino-LNA-T phosphoramidate monomer and structure 7 the 20-amino-LNA-T dimethylamino phosphorodiamidate monomer B = nucleobases and T = thymin-1-yl Fig 2 Snapshots from molecular dynamics simulations of a 9-mer duplex [(50-d

**Synthesis and Biophysical Properties of C5-Functionalized ...**

LNA include its use as an in situ hybridization probe to monitor spatiotemporal expression patterns of miRNAs<sup>15</sup> Many analogues of LNA have been synthesized with the aim of further improving the binding affinity/specificity, enzymatic stability and pharmacokinetic characteristics of LNA<sup>1,2,16</sup> The

**Synthesis and anticancer effects of conjugates of ...**

Synthesis and anticancer effects of conjugates of doxorubicin obtained amide derivatives of DOX by reaction of the amino group with  $\alpha$ -linolenic (LNA) and docosahexaenoic (DHA) acids (2, 3), as well as double-substituted derivatives via amide and ester linkages (4, 5) The structures of the compounds

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

2 | Chem Commun, 0 1 , 40-0 This journal is ' The Royal Society of Chemistry 2015 Cite this Chem Commun, 2015, 1 ,4024 Oligonucleotides containing a piperazino-modified 20-amino-LNA monomer exhibit very high duplex stability and remarkable nuclease resistance†

**Synthesis of Several Types of Bridged Nucleic Acids**

underway 3 0-Amino-2 ,4 -BNA,<sup>21,22</sup> 5 -amino-20,40-BNA,<sup>23</sup> and 2 0 -amino-LNA <sup>24</sup> were designed by replacing an oxygen with a nitrogen either in the backbone or in the bridge moiety

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**Oligonucleotides with Clickable Sugar Residues: Synthesis ...**

cleavage of the isobutyryl residue from the 2-amino group caused difficulties Thus, the more labile methoxyacetyl group was introduced, which has

been successfully employed for other 2-aminoadenosine derivatives<sup>14c</sup> For this, nucleoside 1 was protected on the 2-amino group with the methoxyacetyl residue

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### **A chemical synthesis of LNA-2,6-diaminopurine O 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 3'-O-phosphoramidite of LNA-2,6-diaminopurine riboside is described The derivatives of 2'-O-methyl-2,6-diaminopurine and LNA-2,6-diaminopurine ribosides were used to

### **Intramolecular Free-Radical Cyclization Reactions on ...**

emerged during this upsurge is locked nucleic acid (LNA) The synthesis of LNA was reported first by Imanishi<sup>11</sup> in 1997, whereas Wengel's group<sup>12</sup> reported an independent synthesis in 1998 In LNA, the 2'-O,4'-C-methylene- across the pentose-sugar forms a fused five-membered ring (Figure 1), con-

### **Branched DNA nanostructures efficiently stabilised and ...**

Branched DNA nanostructures efficiently stabilised and monitored by novel pyrene-perylene 2'- $\alpha$ -L-amino-LNA FRET pairs I Kira a, Astakhova, \* aT Santhosh Kumar, Meghan A Campbell, a Alexey V Ustinov, b Vladimir A Korshun, b and Jesper Wengel a, \* a Nucleic Acid Center, Department of Physics, Chemistry and Pharmacy, University of Southern

### **Guide for ordering of miRCURY LNA™ probes and LNA ...**

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