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Synthesis of 2'-Amino-LNA: A Novel Conformationally Restricted High-Affinity Oligonucleotide Analogue with a Handle

Synthesis Of 2 Amino Lna A New Strategy
A new synthesis of 2-amino-3-methoxypyrazine, an intermediate in the synthesis of sulfalene, via 2-carbamido-3-hydroxy pyrazine and subsequent Hofmann rearrangement of

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2-carbamido-3-methoxypyrazine, is described.

Synthesis of 2-amino-3-methoxypyrazinc - Bolta - 1979 ...

A locked nucleic acid (LNA), also known as bridged nucleic acid (BNA), and often referred to as inaccessible RNA, is a modified RNA nucleotide in which the ribose moiety is modified with an extra bridge connecting the 2' oxygen and 4' carbon. The bridge "locks" the ribose in the 3'-endo (North) conformation, which is often found in the A-form duplexes.

(PDF) Synthesis of 2'-Amino-LNA: A Novel Conformationally ...

Oligonucleotides containing a 2'-N-pentafluorophenoxycarbonyl-2'-amino-LNA unit could be isolated under ultra-mild deprotection conditions (50 mM K₂CO₃ in MeOH at room temperature for 4 h). Moreover, by treatment with various amines as a post-synthetic modification, the

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oligonucleotides were successfully converted into the corresponding 2'-N-alkylaminocarbonyl-2'-amino-LNA (2'-urea-LNA ...

Locked nucleic acid - Wikipedia

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Chemistry of locked nucleic acids (LNA): Design, synthesis ...

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Synthesis of 2'-amino-LNA: a new strategy - Organic ...

The synthesis of 2'-amino-LNA (the 2'-amino derivative of locked nucleic acid) has opened up a number of exciting possibilities with respect to modified nucleic acids. While maintaining the excellent duplex stability inferred by LNA-type oligonucleotides, the nitrogen in the 2'-position of 2'-amino-LNA monomers provides an excellent handle for functionalisation.

Synthesis Of 2 Amino Lna A New Strategy

Perylene Attached to 2'-Amino-LNA: Synthesis, Incorporation into Oligonucleotides, and Remarkable Fluorescence Properties in Vitro and in Cell Culture. *Bioconjugate Chemistry* 2008, 19 (10) , 1995-2007. DOI: 10.1021/bc800202v.

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Synthesis of 2'-Amino-LNA Purine Nucleosides: Nucleosides ...

The triphosphate of the thymine derivative of 2'-amino-LNA (2'-amino-LNA-TTP) was synthesised and found to be a good substrate for Phusion® HF DNA polymerase, allowing enzymatic synthesis of ...

Synthesis Of 2 Amino Lna

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 ...

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Amino acids attached to 2'-amino-LNA: synthesis and ...
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Synthesis of 2'-Amino-LNA Purine Nucleosides | Request PDF

Synthesis and Biophysical Investigations of Oligonucleotides Containing Galactose-Modified DNA, LNA, and 2'-Amino-LNA Monomers. The Journal of Organic Chemistry 2016, 81 (22) , 10845-10856. DOI: 10.1021/acs.joc.6b01917. I. Kira Astakhova and Jesper Wengel .

Synthesis of 2'-amino-LNA: a new strategy.

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In this paper we present revised and significantly improved synthetic routes to 2'-amino-LNA (locked nucleic acid). The optimal route is convergent with the synthesis of LNA monomers ("2'-oxy-LNA") via a common intermediate obtained by a mild deacetylation for the liberation of the 2'-hydroxy group to give compound 23 without the concomitant ring closure that affords the 2'-oxy-LNA ...

Synthesis Of 2 Amino Lna A New Strategy

Preparation of LNA nucleosides requires a number of synthetic steps but very efficient procedures have been developed, as have protocols for synthesis of LNA oligonucleotides on automated DNA synthesizers. In all cases, LNA oligonucleotides have exhibited good aqueous solubility as would be expected from their close structural resemblance to the natural nucleic acids.

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Synthesis of 2 -amino-LNA: a new strategy

In this paper we present revised and significantly improved synthetic routes to 2'-amino-LNA (locked nucleic acid). The optimal route is convergent with the synthesis of LNA monomers ("2'-oxy-LNA") via a common intermediate obtained by a mild deacetylation for the liberation of the 2'-hydroxy group to give compound 23 without the concomitant ring closure that affords the 2'-oxy-LNA skeleton.

Large Scale Synthesis of 2'-Amino-LNA Thymine and 5 ...

The synthesis of 2'-amino-LNA (the 2'-amino derivative of locked nucleic acid) has opened up a number of exciting possibilities with respect to modified nucleic acids. While maintaining the excellent duplex stability inferred by LNA-type oligonucleotides, the nitrogen in the 2'-position of

Synthesis of 2'-Amino-LNA: A Novel Conformationally ...

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Amino acids attached to 2'-amino-LNA: synthesis and ...

The first reported synthesis of 2'-amino-LNA purine nucleosides via a transnucleosidation is accomplished enabling the preparation of oligonucleotides incorporating 2'-amino-LNA with all four natural bases.

SYNTHESIS OF A 2'-AMINO- α -L-LNA-T PHOSPHORAMIDITE

...

The synthesis of 2'-amino-LNA (the 2'-amino derivative of locked nucleic acid) has opened up a number of exciting possibilities with respect to modified nucleic acids. While maintaining the excellent duplex stability inferred by LNA-type oligonucleotides,

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the nitrogen in the 2'-position of 2'-amino-LNA monomers provides an excellent handle for functionalisation.