

SAFC®

Proligo® Reagents

The Intelligence of Biotechnological Solutions

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SAFC Proligo Reagents

Outline

« *Raw materials for oligonucleotide synthesis* »

- **Why Proligo**
 - Application
 - Products
- **Key Strengths**
- **Company History**

SAFC Proligo Reagents

Why Choose Proligo Reagents?



SAFC Proligo Reagents

Three Reasons

1. Competitively priced oligonucleotide raw materials
2. Superior quality
3. Value enhanced customer experience

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Key Strengths

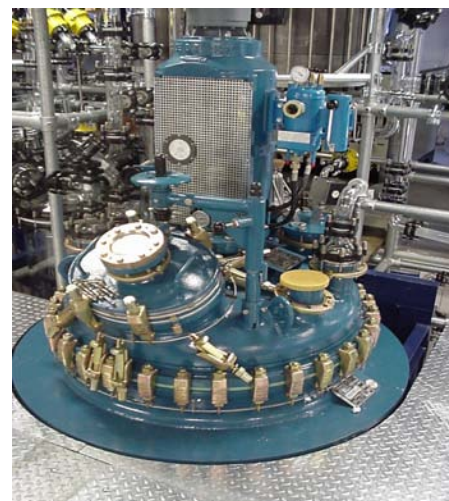
- Extensive range of products
- Significant history in supplying pharmaceutical and diagnostics industries
- Highly-qualified staff
- ISO 9000 certified since 1993



SAFC Proligo Reagents

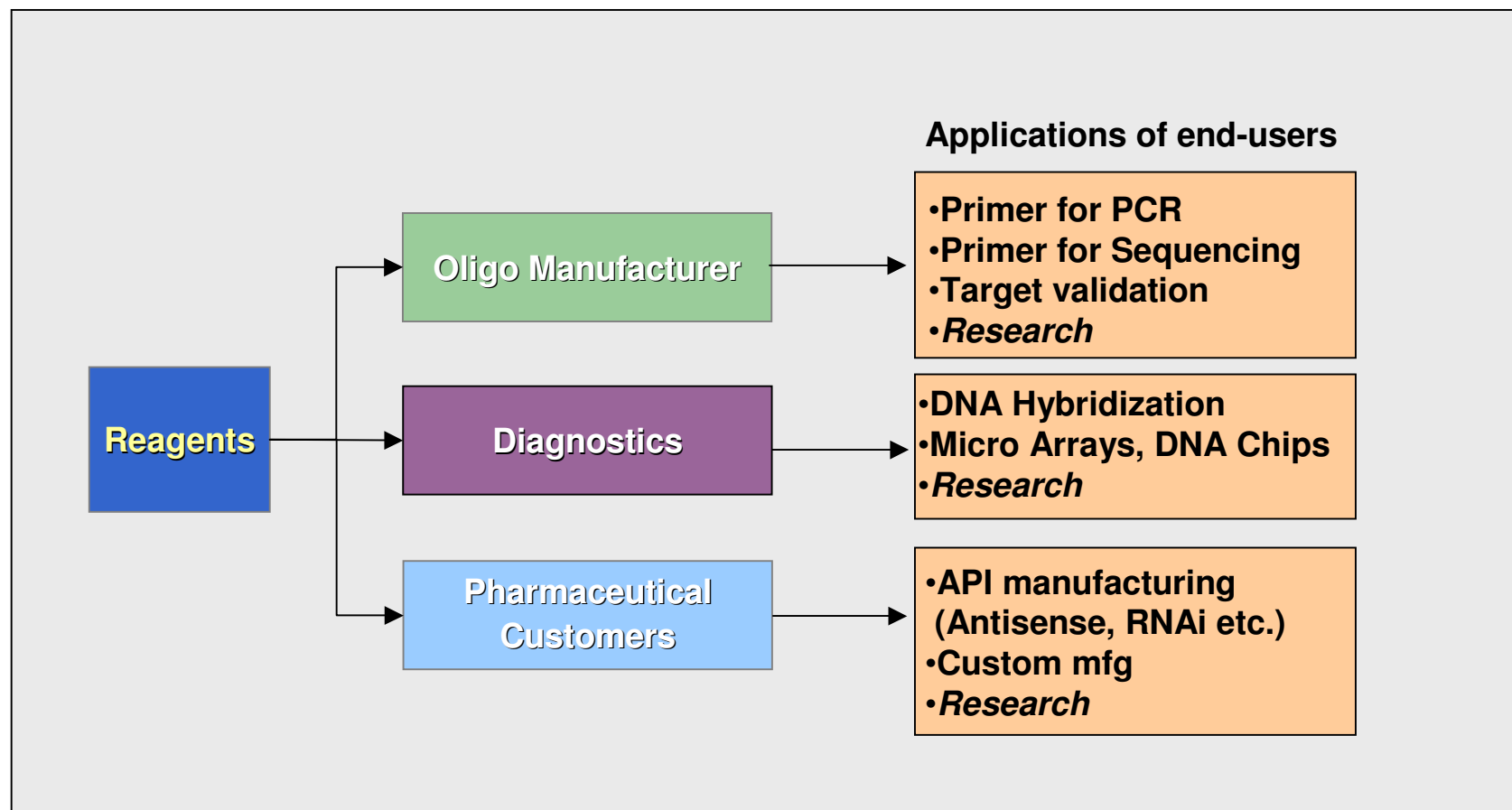
Key Strengths

- **Broad technological expertise in nucleic acid products**
- **Strong background in specialty monomer manufacturing**
- **Vast experience in process and product development**
- **Modern laboratories, state-of-the-art analytical support**
- **Automated HPLC purification plant**



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Applications



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Our Offer

- **Product breadth**
- **Quality assurance & quality control**
- **Analytical services**
- **Packaging services**
- **Custom products**
- **Manufacturing capacities**

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The Products



'29 Years of experience in manufacturing oligonucleotide raw materials'

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The Products

www.safcglobal.com/proligoreagents

Product Breadth of Proligo Reagents

Phosphoramidites:

- › [Pharmadite®](#)
- › [DNA Phosphoramidites](#)
- › [RNA Phosphoramidites](#)
- › [2'-O-Methyl RNA Phosphoramidites](#)
- › [DMT-2'Fluoro Phosphoramidites](#)
- › [5'-NPPOC Phosphoramidites](#)

Fast Deprotection Chemistries:

- › [DNA](#)
 - › [RNA](#)
- #### Supports:
- › [Controlled Pore Glass \(CPG\)](#)

Columns

Solvents:

- › [Liquid Reagents](#)
- › [Activator 42™](#)

Modifications:

- › [Fluorescein Phosphoramidite](#)
- › [Biotin Phosphoramidite](#)
- › [Phosphate-ON Phosphoramidite](#)
- › [Non-Standard Nucleosides](#)
- › [6-FAM](#)

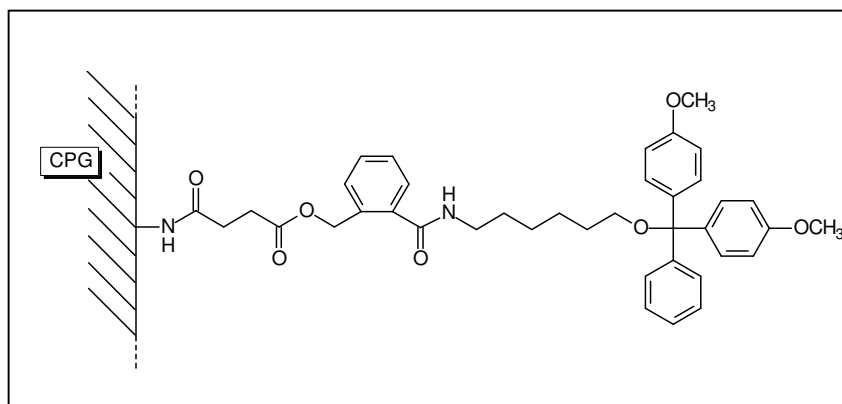
Linkers:

- › [Amino Linkers](#)
- › [ssH-Linker](#)

Product Breadth of Proligo Reagents

SAFC Proligo Reagents

Amino-ON CPG



Amino-ON CPG attaches an amino group to the 3' end of an oligonucleotide

Features

- Selective conjugation to reporter groups
- Purification handles, other modifiers
- Attachment to electrophilic surface
- Protection against exonucleolytic degradation

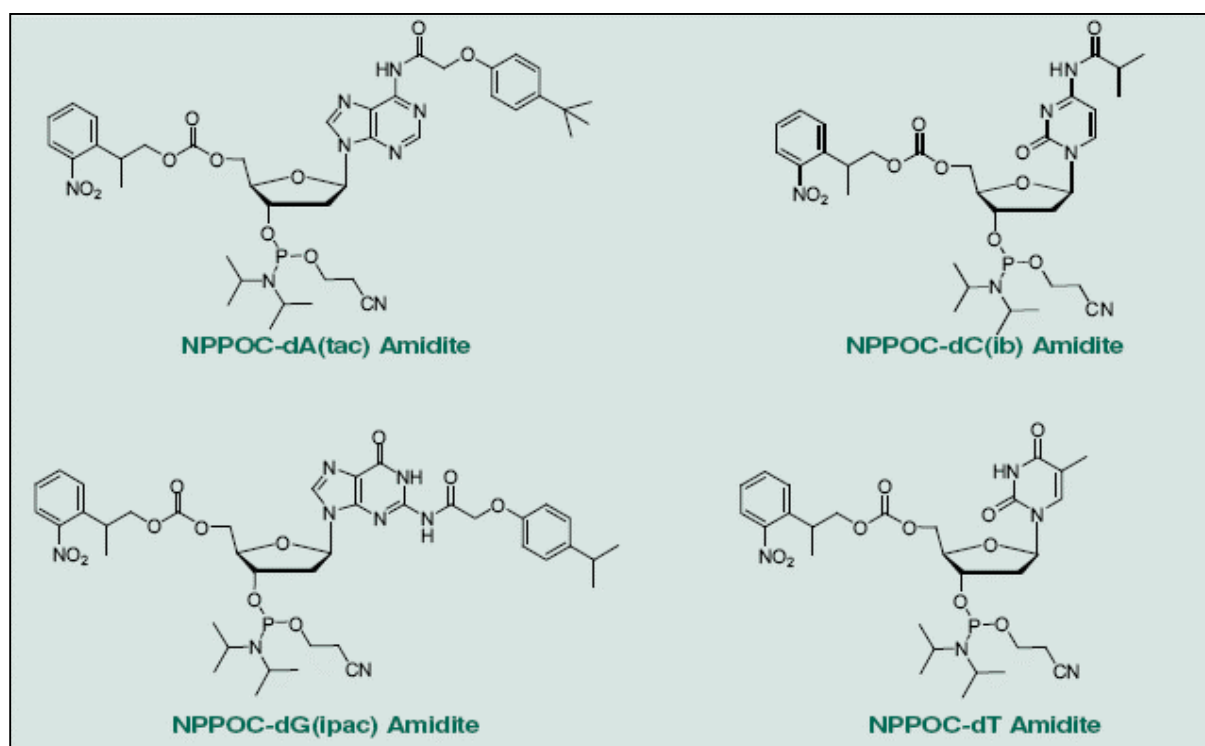
Applications

- 3'-Labelling with base-sensitive dyes
- 3'-Biotin modification
- Double labelled probes (TaqMan[®], molecular beacon)
- Microarray spotting

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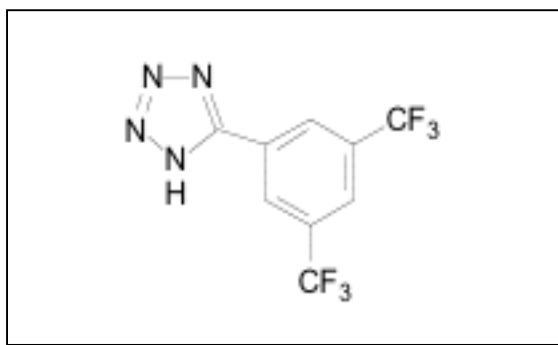
NPPOC-Phosphoramidites

Used for the production of DNA microarrays using photolithographic synthesis of oligos directly onto the chip - flexible system.



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Activator 42



Features

- Highest activation efficiency in industry
- Ultrafast DNA couplings (<15s)
- Rapid RNA couplings (6min)
- High overall yields

Applications

- Introduces unprecedented activation power to coupling

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Mission

'Proligo Reagents aspires to be the market leader in high quality, innovative, competitively priced oligonucleotide raw materials to fulfil all our customers' needs'

Vision

'We aim to provide a customer enhanced experience by being the global partner of choice'

SAFC Proligo Reagents

Division of Sigma-Aldrich

Sigma-Aldrich

- >\$2.2B in sales
- Nasdaq:SIAL
- >35 years of consecutive growth
- Offices in 38 countries



Proligo Reagents

- 1981 Biosynth GmbH founded by Professor Hubert Köster
- 1998 Proligo Reagents founded by SKW & NeXstar
- 2005 Proligo Reagents acquired by Sigma-Aldrich for SAFC

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