

Nucleic Acid Medicine

----- 2020 年 -----

實吉尚郎、小野晶

プロオリゴ型核酸医薬を志向した保護基の開発研究

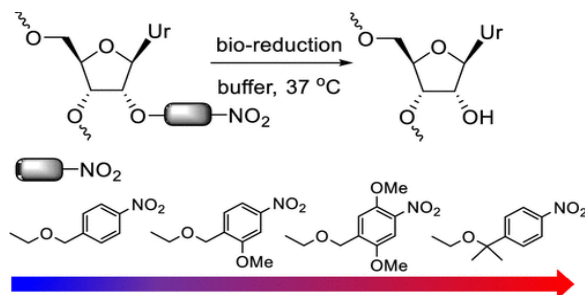
有機合成化学協会誌、**2020**, 78 (9), 886-893.(総説)<https://doi.org/10.5059/yukigoseikyokaishi.78.886>

Hisao Saneyoshi, Kodai Nakamura, Kazuma Terasawa, Akira Ono

Development of Bioreduction Labile Protecting Groups for the 2'-Hydroxyl Group of RNA

Organic Letters, **2020**, 22, 15, 6006–6009.<https://doi.org/10.1021/acs.orglett.0c02086>

(Publication Date: July 14, 2020)



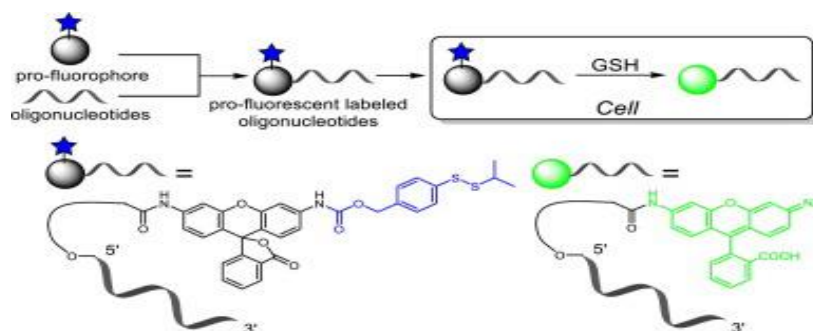
Hisao Saneyoshi, Yuta Yamamoto, Takayuki Ohta, Shoji Akai, Akira Ono

Thiol-responsive pro-fluorophore labeling: Synthesis of a pro-fluorescent labeled oligonucleotide for monitoring cellular uptake

Bioorganic & Medicinal Chemistry Letters, **2020**, 30, 127222.<https://doi.org/10.1016/j.bmcl.2020.127222>

(Volume 30, Issue 13, 1 July

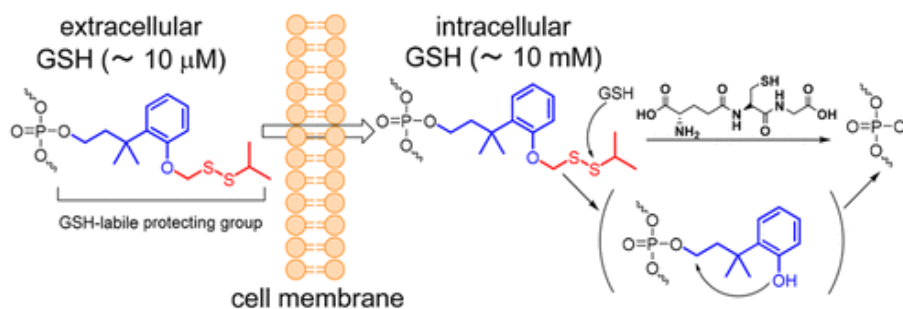
2020, 127222)



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Hisao Saneyoshi, Takayuki Ohta, Yuki Hiyoshi, T. Saneyoshi, Akira Ono

“Design, synthesis and cellular uptake of oligonucleotides modified with glutathione-labile protecting groups”

Org. Lett., **2019**, 21, 862–866.<https://doi.org/10.1021/acs.orglett.8b03501>

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Hisao Saneyoshi & Akira Ono

"Development of Protecting Groups for Prodrug-Type Oligonucleotide Medicines"

Chem. Pharm. Bull., **2018**, 66, 147-154.

<https://doi.org/10.1248/cpb.c17-00696>

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Hisao Saneyoshi, Kazuhiko Kondo, Koichi Iketani, Akira Ono

"Alkyne-linked reduction-activated protecting groups for diverse functionalization on the backbone of oligonucleotides"

Bioorg. Med. Chem., **2017**, 25, 3350-3356..

<https://doi.org/10.1016/j.bmc.2017.04.020>

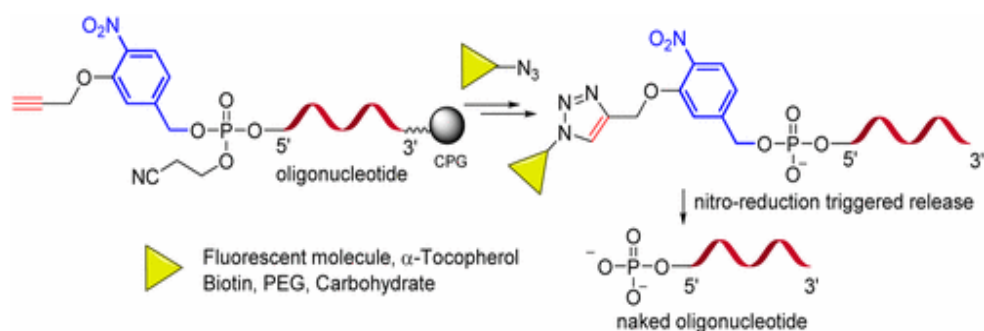
Hisao Saneyoshi, Yuta Yamamoto, Kazuhiko Kondo, Yuki Hiyoshi, Akira Ono

"Conjugatable/Bioreduction Cleavable Linker for the 5'-Functionalization of Oligonucleotides"

J. Org. Chem., **2017**, 82, 1796-1802

DOI:10.1021/acs.joc.6b02527

<https://doi.org/10.1021/acs.joc.6b02527>



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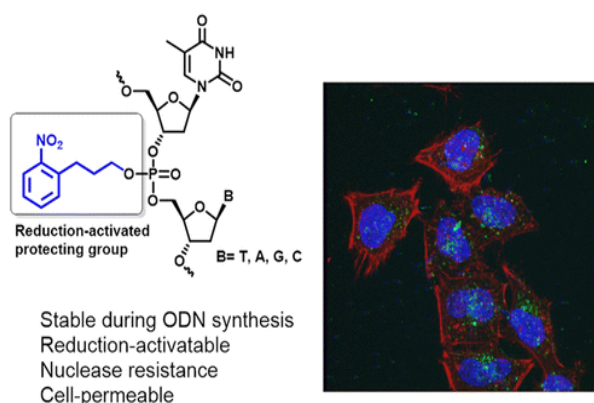
Hisao Saneyoshi, Koichi Iketani, Kazuhiko Kondo, Takeo Saneyoshi, Itaru Okamoto, and Akira Ono

“Synthesis and Characterization of Cell-Permeable Oligonucleotides Bearing Reduction-Activated Protecting Groups on the Internucleotide Linkages”

Bioconjugate Chem., **2016**, 27, 2149–2156.

DOI:10.1021/acs.bioconjchem.6b00368

<https://doi.org/10.1021/acs.bioconjchem.6b00368>



Hisao Saneyoshi*, Kazuhiko Kondo, Naoki Sagawa, Akira Ono*

“Glutathione-triggered activation of the model of pro-oligonucleotide with benzyl protecting groups at the internucleotide linkage”

Bioorg. Med. Chem. Lett., **2016**, 26, 622-625.

doi:10.1016/j.bmcl.2015.11.064

<https://doi.org/10.1016/j.bmcl.2015.11.064>

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Hisao Saneyoshi,* Yuki Hiyoshi, Koichi Iketani, Kazuhiko Kondo, Akira Ono*

“Bioreductive deprotection of protected thymine bases in oligonucleotides for the activation of duplex formation”

Bioorg. Med. Chem. Lett., **2015**, 25, 5632-5635.

<https://doi.org/10.1016/j.bmcl.2015.10.025>

Hisao Saneyoshi,* Kanami Shimamura, Naoki Sagawa, Yuki Ando, Takahito Tomori, Itaru Okamoto, Akira Ono*

“Development of a photolabile protecting group for phosphodiester in oligonucleotides”

Bioorg. Med. Chem. Lett., **2015**, 25, 2129-2132.

<https://doi.org/10.1016/j.bmcl.2015.03.064>