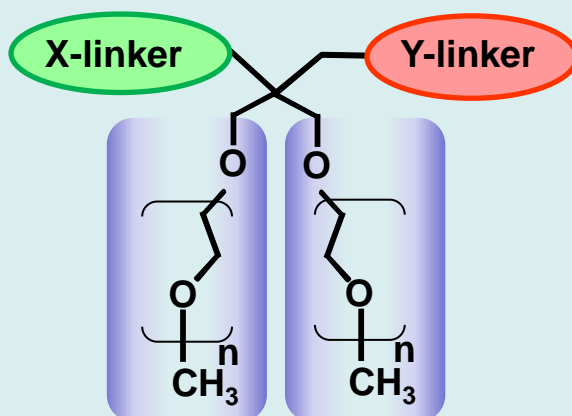


Pendant type PEG linker for antibody-drug conjugates (ADCs)

Single molecule PEGs
– PUREBRIGHT® Series –

Concept



Pendant type PEG linker

• Hydrophilic side chain

Pendant type PEG linker has two PEG side-chains which increase hydrophilicity and improve pharmacokinetics of antibody-drug conjugates (ADCs).

Product name	Description	n
PUREBRIGHT® MA-P04-NP		4
PUREBRIGHT® MA-P12-NP		12

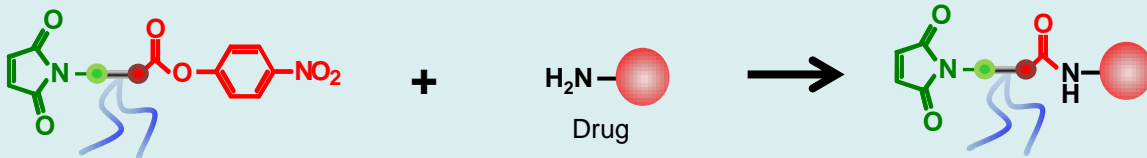
Patent application No. : JP2017-66987

NOF can customize functional groups on the PUREBRIGHT®.

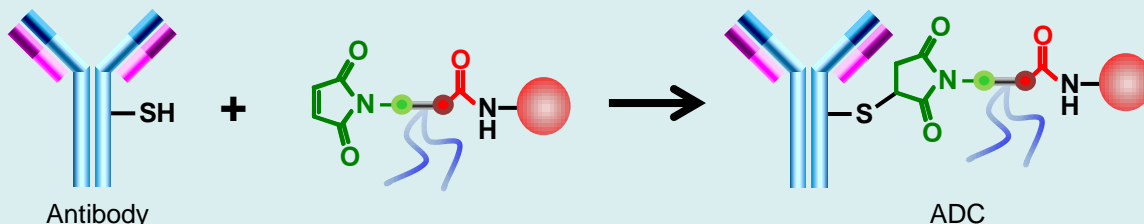
Features

The pendant type PEG linker which has two PEG side-chains increases water solubility of drugs and hydrophilicity of ADCs.

Preparation of ADCs



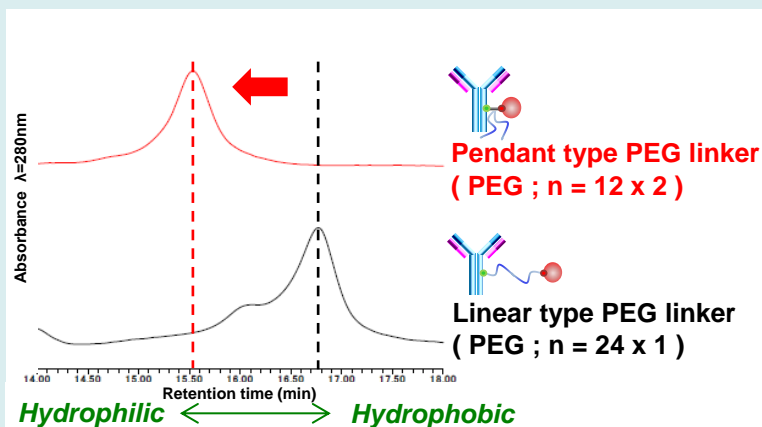
Pendant type PEG linker



Antibody

ADC

Characterization of ADCs by hydrophobic interaction chromatography



Drug : Doxorubicin
Antibody : anti-IL1B

Analytical condition

- Column : TSKgel Butyl-NPR (4.6x35mm, 2.5 μ m)
- Mobile phase A : 1.5 M (NH₄)₂SO₄ in 50 mM phosphate buffer, pH 7.0
- Mobile phase B : 50 mM phosphate buffer pH 7.0 + 20% isopropanol
- Gradient : mobile phase B 0% - 0% (0min-2.5min), 0% - 100% (2.5min-35min)
- Flow rate : 0.8 ml/min
- Temperature : 25 °C

The pendant type PEG linker increases hydrophilicity of ADCs more effectively than linear type PEG linkers.

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