

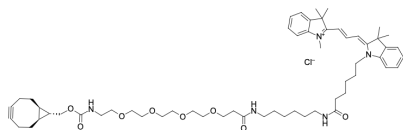
BCN-PEG4-Cyanine3 (exo)

<http://www.lumiprobe.com/p/bcn-peg4-cy3>

BCN-PEG4-Cyanine3 contains functional group bicyclononyne linked to a fluorophore Cyanine3. Bicyclo[6.1.0]nonyne (BCN) is a cyclooctyne with a significantly improved reactivity profile of strain-promoted azide-alkyne cycloaddition.

Conjugation of cyclooctyne constructs is used for labeling monoclonal antibodies containing an azido-functionalized amino acid with high conversion via copper-free click conjugation [1].

[1] Remon van Geel et al. Chemoenzymatic Conjugation of Toxic Payloads to the Globally Conserved N-Glycan of Native mAbs Provides Homogeneous and Highly Efficacious Antibody-Drug Conjugates. *Bioconjugate Chemistry*. 2015. 26(11). 2233-2242.



Structure of BCN-PEG4-Cyanine3 (exo)

General properties

Appearance: dark red powder

Molecular weight: 1014.79

Molecular formula: $C_{58}H_{84}ClN_5O_8$

Quality control: NMR 1H and HPLC-MS (95+%)

Storage conditions: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate. Avoid prolonged exposure to light.

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