

CPNs™	Ex/Em maxima (nm)	Fluorescent colour	Spectrally comparable* fluorophores	Commonly used filter sets (Ex/Em)
CPN™ 1130	750 / 1130	NIR-II		
CPN™ 900	650 / 900	NIR-I		
CPN™ 680	400 / 680	Red		
CPN™ 610	480 / 610	Orange		
CPN™ 550	470 / 550	Yellow	FITC, Alexa Fluor® 488, GFP, YFP	475/70 BP 530/86 BP
CPN™ 510	400 / 510	Green B		
CPN™ 510	450 / 510	Green	FITC, Alexa Fluor®488, Dylight 488,GFP, YFP	475/70 BP 530/86 BP
CPN™ 475	390 / 475	Blue	AMCA, eBFP, DAPI, Hoechst 33342, Hoechst 33258	377/60 BP 447/60 BP
CPN™ 435	390 / 435	Indigo	AMCA, eBFP, DAPI, Hoechst 33342, Hoechst 33258, Alexa Fluor® 405	377/60 BP 447/60 BP
CPN™ 420	390 / 420	Violet	AMCA, eBFP, DAPI, Hoechst 33342, Hoechst 33258, Alexa Fluor® 405	377/60 BP 447/60 BP



LINKBRIGHT™

CPN: Amine Oligonucleotide Conjugation Kit

Manual and protocol

30min reaction time, 6 easy steps

This product is for research use only and is not intended for diagnostic use.

LINKBRIGHT™ Conjugation Kits

are available for IgG antibody, oligonucleotide and protein linkage via Amine & Thiol in the above CPN wavelengths.

Purchaser Notification

These high-quality reagents and materials must be used by, or directly under the supervision of, a technically qualified individual experienced in handling potentially hazardous chemicals. Read the Safety Data Sheet for each product available, other regulatory considerations may apply.

Obtaining Support

Search FAQ's at www.streambio.co.uk/FAQs or submit a question directly to Technical Support techsupport@streambio.co.uk

SDS

Safety Data Sheets (SDSs) are available at www.streambio.co.uk/resources-downloads/

Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on request

For Research Use Only. Not for use in diagnostic procedures.

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Limited Warranty

Stream Bio Ltd and/or its affiliate(s) warrant their products as set forth in the Stream Bio' General Terms and Conditions of Sale found on Stream Bio's' website at www.streambio.co.uk/termsandconditions If you have any questions, please contact Stream Bio Ltd at info@streambio.co.uk or techsupport@streambio.co.uk

Materials supplied and storage

Vial / cap colour	Item (colour coded)	Quantity			Storage
1. White*	(150µl) LINKBRIGHT™ Amine	1 vial	3 vials	10 vials	-20°C
2. Brown	Solution HP (200µl)	1 vial	1 vial	1 vial	-20°C
3. Green	Solution SG (200µl)	1 vial	1 vial	1 vial	-20°C

When stored as directed, the kit components are stable for at least 6 months.

1x vial of CPN LINKBRIGHT™ (150 µl) is optimised for ~6nmole of oligonucleotide.

*CPNs™ are available in a range of emission wavelengths (420nm to 1130nm in the IR) see table or visit www.streambio.co.uk/products/

Procedure Overview

(Hands-on) - Add antibody to a vial of LINKBRIGHT™

Reaction time 30 min

Stop reaction

(Hands-on) - Add Solution SG for 5 min

Before you Start

IMPORTANT: The purified oligonucleotide must be in a buffer free of ammonium ions, primary amines, or sodium azide preservatives, as they will disrupt the linkage reaction with the CPNs™. If the oligonucleotide is in, or has been lyophilized from an unsuitable buffer (e.g. Tris or glycine) or purified with ammonium sulphate, the buffer needs to be replaced with HEPES. Oligonucleotides can be purified and resuspended using standard methods, e.g. microdialysis or column separation.

Biomolecule Conjugation Procedure

Note: LINKBRIGHT™ Amine Oligo Conjugation Kit is optimised for conjugation of oligonucleotides to the amine group, for other biomolecules please either use an alternative kit, consult our guide, or contact technical support. LINKBRIGHT™ IgG antibody Conjugation Kits are also available

CPN Conjugation

1. Dissolve the lyophilized amine-modified oligonucleotides in ddH₂O to the final concentration at 100 µM.
2. Take 60 µl of 100 µM amine-modified oligonucleotide, add 3 µl of Solution HP (vial #2, brown cap) and 87 µl ddH₂O.
3. Add 150 µl of oligonucleotide§ mixture to a vial of LINKBRIGHT™ CPN - Amine
4. Incubate at room temperature for 30 min
5. Add 6µl Solution SG (vial #3, green cap)
6. Incubate at room temperature for 5 min

(Optional) A magnetic separation[‡] method or a 100 kD MWCO desalting column can be chosen to purify the conjugates when required

§Optimal oligonucleotide to CPN ratio to be determined by end user.

‡CPNs™ can be attracted to magnets allowing the purifying and separating of the CPNs™ from unlinked reagents.