

CYCLOLAB



The Cyclodextrin Company

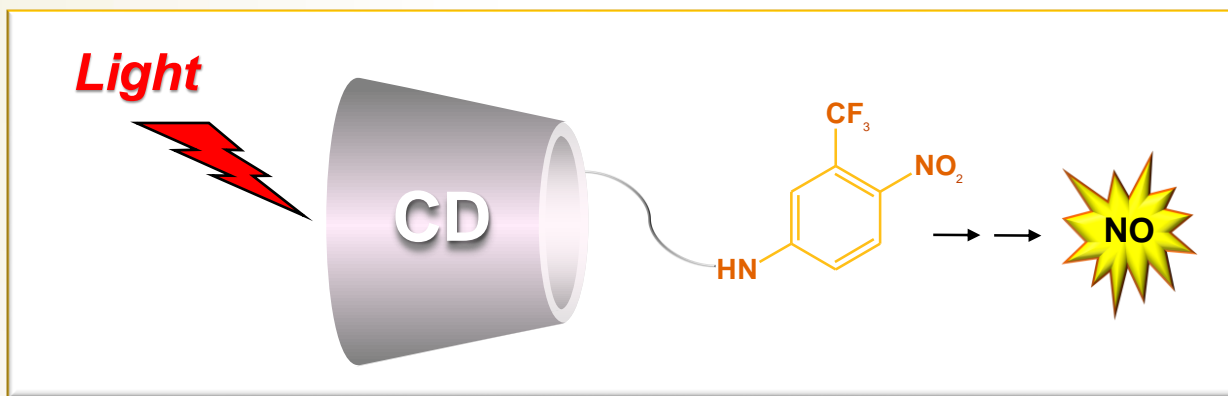


**Photoactivable
Cyclodextrins
for
Nitric Oxide Delivery**



Photoactivable Cyclodextrins

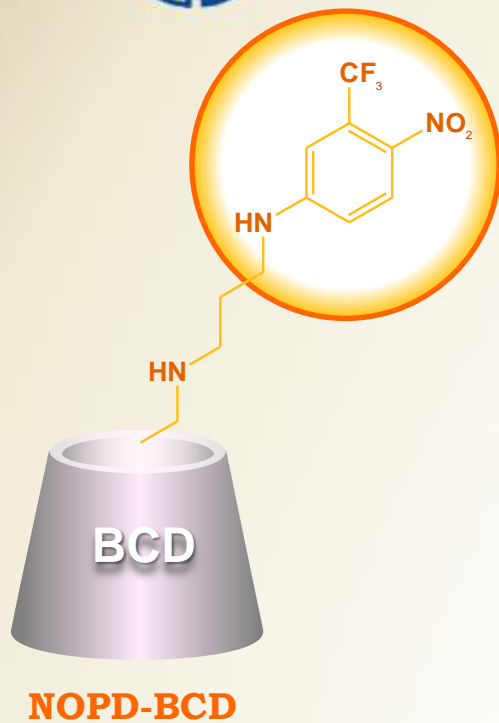
Nitric oxide (NO) is a pleiotropic bioregulator of important physiological and pathophysiological processes encompassing neurotransmission, vasodilatation and hormone secretion in living bodies. Besides, NO is an excellent sacrificial antioxidant, anticancer and antibacterial agent.



CycloLab has developed water soluble cyclodextrins conjugated with a nitroaniline moiety able to release nitric oxide after irradiation. The resulting compounds have a wide range of applications.

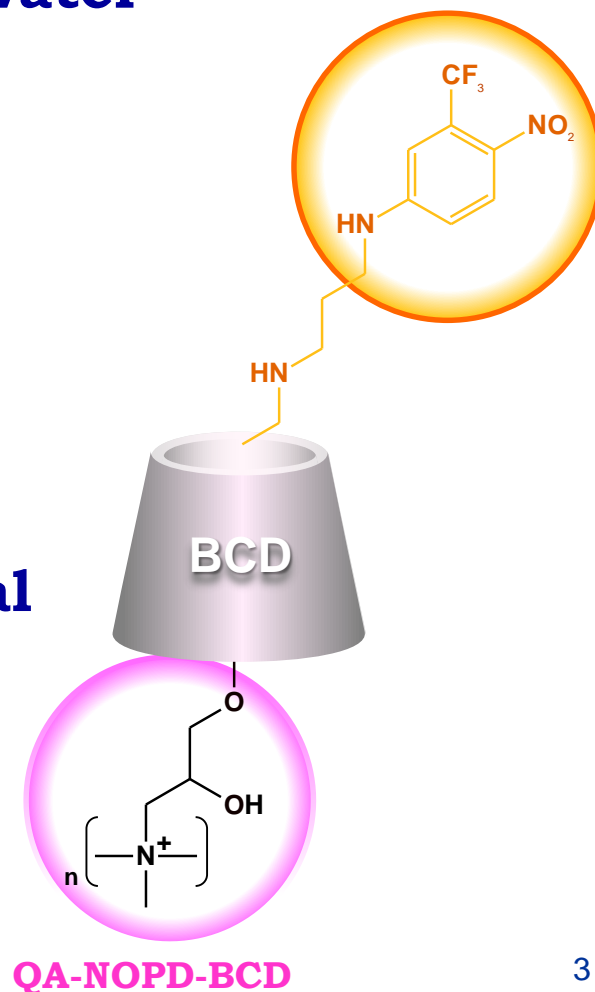


Photoactivable Cyclodextrins Monomers



CycloLab developed water soluble cyclodextrins that integrate nitric oxide photoreleaser.

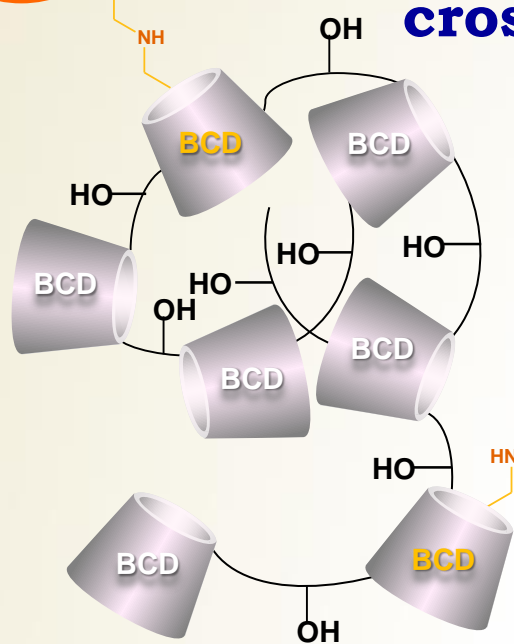
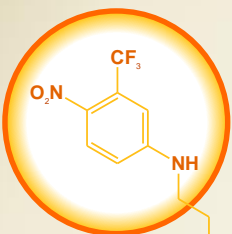
Light-activated NO donor compounds are very appealing systems due to the superb spatiotemporal accuracy the light triggering offers.



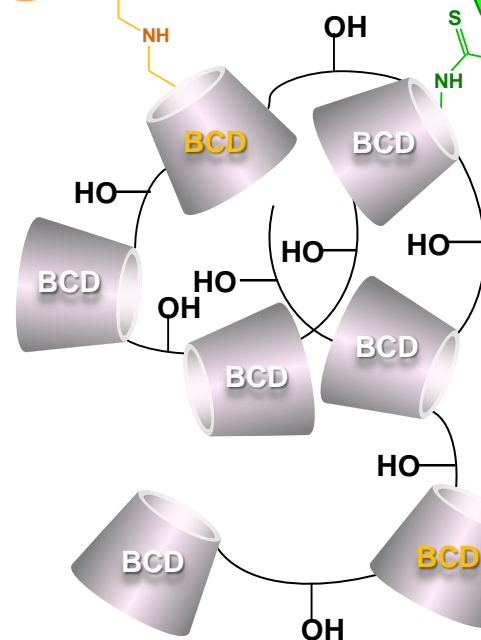
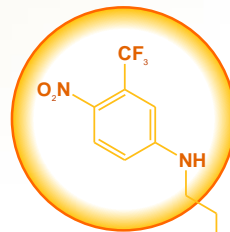
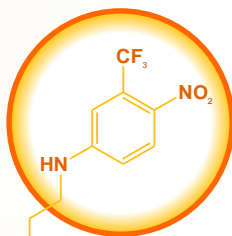


Photoactivable Cyclodextrins Polymers

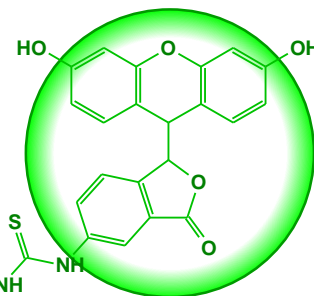
CycloLab incorporated the nitric oxide photoreleaser unit into epichlorohydrin cross-linked BCD polymers.



NOPD-BCD/BCDPS



FITC-NOPD-BCD/BCDPS



A bichromophoric polymeric system has been also designed enabling simultaneously nitric oxide release and fluorescent detection.



Photoactivable Cyclodextrins

List of available products at CycloLab

Product code	Product name
CY-2218	NOPD-BCD
CY-2219	QA-NOPD-BCD
CY-2220	NOPD-BCD/BCDPS
CY-F-2220	FITC-NOPB-BCD/BCDPS

For any other specific derivative to be designed, please reach out to us for discussion at info@cyclolab.hu



Photoactivable Cyclodextrins

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