

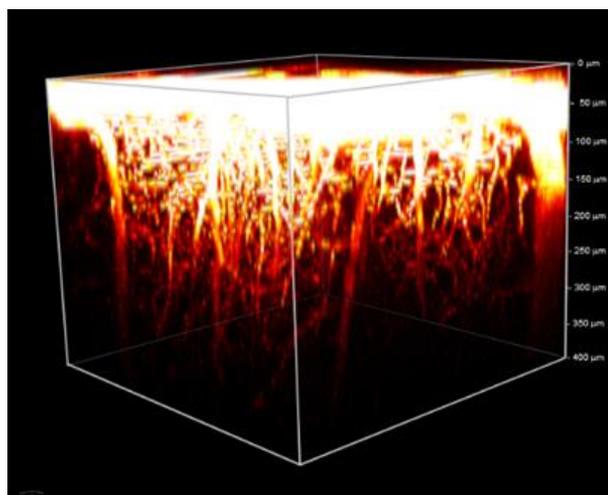


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Super-Photostable Near Infrared Dye

PREX710-NHS

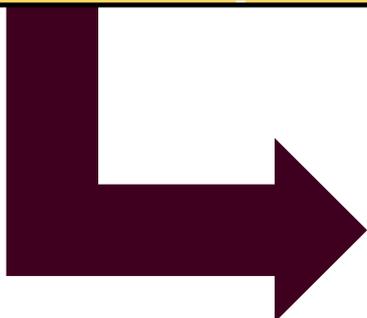
For more information : https://www.funakoshi.co.jp/exports_contents/95010?FL



PREX710 is a **super-photostable near infrared fluorescent dye** with **high chemical stability**. The product format is PREX710-NHS (N-hydroxysuccinimide) which enables to label amino group-containing molecules such as antibodies.

Our PREX710 can be used for various applications

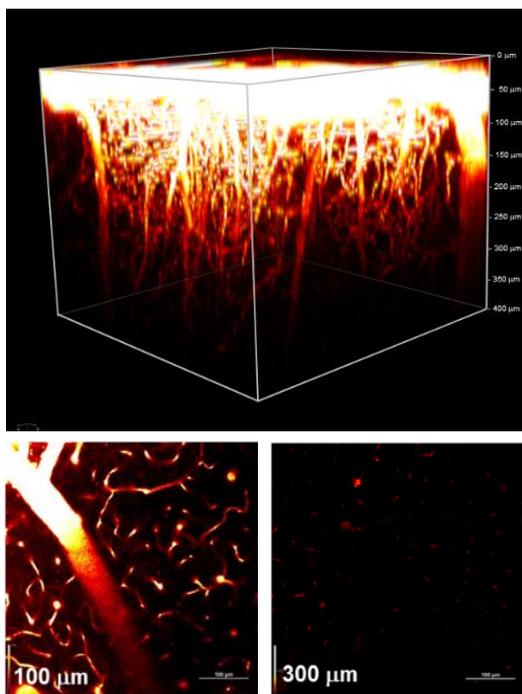
Near Infrared Dye	Chemical stability	Photostability	Auto-fluorescence
Conventional dye Cyanine type	△	△	Low
PREX710 Xanthene type	◎	◎	Low



- ✓ In vivo imaging / Deep imaging
- ✓ Single molecule imaging
- ✓ Low auto-fluorescent background
- ✓ Multi color imaging

In vivo deep imaging

Blood vessels in live mouse brain

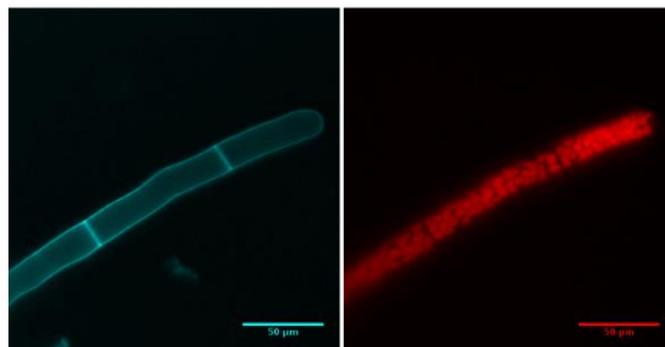


PREX710-dextran conjugate was injected into bloodstream via a tail vein of young adult ICR mouse. The brain tissue was monitored by “openslull” method with confocal microscopy. PREX710 was highly stable in blood and could be excited by near-infrared light which has little effect on hemoglobin.

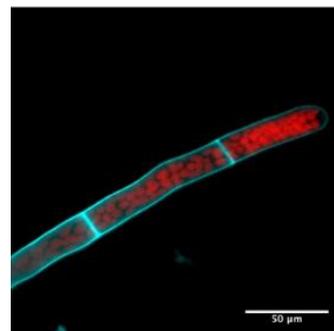
Plant imaging

PREX710-R8

Chloroplast

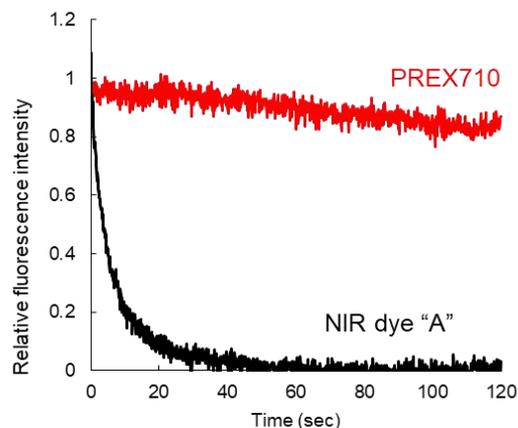
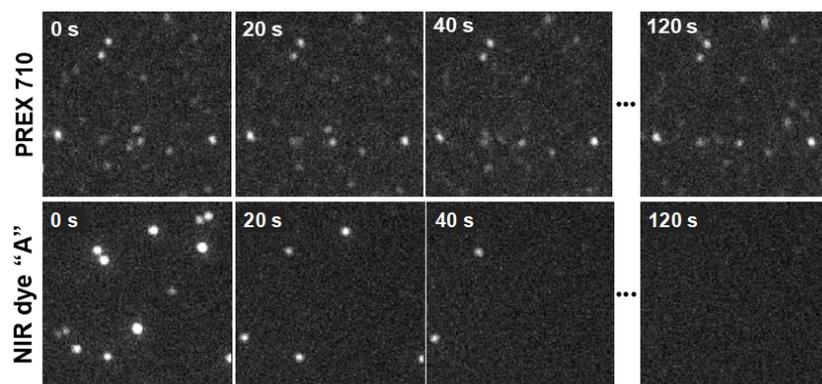


Merge



Physcomitrella patens was stained with PREX710-conjugated octaarginine (R8) and fluorescent signal was observed by fluorescent microscopy. As fluorescent signal of PREX710 (cyan) was clearly separated from chloroplast’s autofluorescence (red).

Single molecule imaging



Avidin was labeled with PREX710-NHS or cyanine-type near infrared (NIR) dye "A" and then immobilized on a glass slide via biotin conjugated linker. Single molecule images of PREX710 and NIR dye "A" were acquired continuously. PREX710 showed high photostability under the single molecule level compared with NIR dye "A".

<Manufacturer: FNA>

Product Name	Code	Size	Price
PREX710-NHS <Super-Photostable Dye>	FDV-0036	1 mg	

NOTE

- ※ All products here are research use only, not for diagnostic use.
- ※ Specs might be changed for improvement without notice.
- ※ Numbers after "#" represents product code.
- ※ Company name and product name are trademark or registered mark.
- ※ Please contact your local distributors for orders, quote request and inquiry.

Your Local Distributor

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