TECHNICAL DATA SHEET

Research use only. Not for use in diagnostic procedures.

Fluorescent Imaging Agent

IVISense™ Pan Cathepsin 750 Fluorescent Probe

Product Number: NEV10001EX

DESCRIPTION

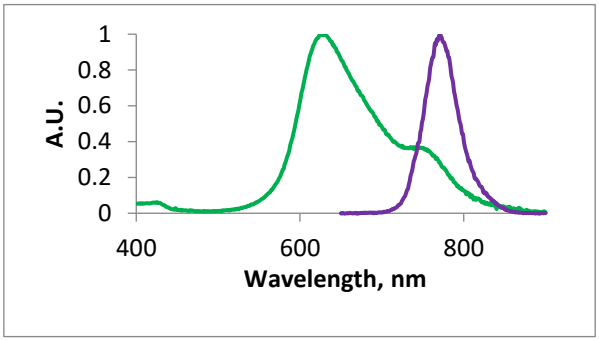
IVISense™ Pan Cathepsin 750 Fluorescent Probe is a protease activatable fluorescent in vivo imaging agent that is activated by key disease associated proteases such as Cathepsin B, L, S and Plasmin. IVISense™ Pan Cathepsin 750 Fluorescent Probe is optically silent in its unactivated state and becomes highly fluorescent following protease-mediated activation.

MATERIAL

Each vial contains 24 nmol (fluorophore) of IVISense™ Pan Cathepsin 750 Fluorescent Probe as a lyophilized solid. The solution of IVISense™ Pan Cathepsin 750 Fluorescent Probe has been filtered through a 0.2 µm filter prior to lyophilization. Upon reconstitution with 1.2 mL of 1 x PBS, this material provides sufficient reagent for imaging approximately 10 mice (weighing ~25 grams each) when using the recommended dose of 2 nmol/100 µL 1xPBS of IVISense™ Pan Cathepsin 750 Fluorescent Probe per mouse.

Property	Specification
MW	~ 450,000 g mol^{-1}
Fluorescence[1]	
• Excitation	750 nm
• Emission	770 nm
Absorbance[1]	630 ±10nm
Purity[2]	>95%
Appearance	Blue solid

1. Absorbance, excitation, and fluorescence maxima of IVISense™ Pan Cathepsin 750 Fluorescent Probe in 1xPBS.
2. As determined by SE-HPLC and measuring absorbance at 750 nm.



STORAGE & HANDLING

- Upon receipt, IVISense™ Pan Cathepsin 750 Fluorescent Probe should be IMMEDIATELY STORED AT -20 °C AND PROTECTED FROM LIGHT.
- When stored and handled properly, IVISense™ Pan Cathepsin 750 Fluorescent Probe is stable for up to six months from the date of shipment.
- Once reconstituted, the PBS solution is stable up to 14 days when stored at 2-8 °C.

IN VIVO IMAGING & APPLICATIONS

- The recommended procedure for in vivo imaging with IVISense™ Pan Cathepsin 750 Fluorescent Probe is administration via tail vein injection and imaging 24 hours post injection.
- Imaging in Arthritis: IVISense™ Pan Cathepsin 750 Fluorescent Probe can be used as a marker for disease progression and therapeutic response in animal models of arthritis.
- Imaging in Oncology: IVISense™ Pan Cathepsin 750 Fluorescent Probe can be used as a marker for disease progression in animal tumor models.

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