# IVISense™ Pan Cathepsin 680 Fluorescent Probe

Product Number: NEV10003

## DESCRIPTION

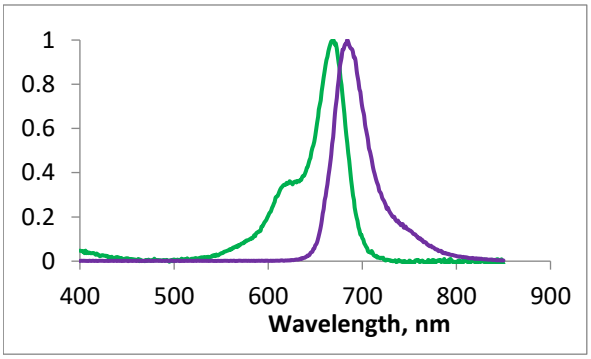
IVISense™ Pan Cathepsin 680 Fluorescent Probe is a protease activatable fluorescent in vivo imaging agent that is activated by key disease associated proteases such as Cathepsin B, L, S and Plasmin. IVISense™ Pan Cathepsin 680 Fluorescent Probe is optically silent in its unactivated state and becomes highly fluorescent following protease-mediated activation.

## MATERIAL

Each vial contains 20 nmol of IVISense™ Pan Cathepsin 680 Fluorescent Probe at a concentration of 20 nmol/150 µL, in 1xPBS. The IVISense™ Pan Cathepsin 680 Fluorescent Probe solution has been filtered through a 0.2 µm filter. Upon dilution with 1350 ul of 1 x PBS, this material provides sufficient reagents for imaging approximately 10 mice (weighing ~25 grams each) when using the recommended dose of 2 nmol/150 µL 1xPBS of IVISense™ Pan Cathepsin 680 Fluorescent Probe per mouse.

| Property | Specification |
|---|---|
| MW | ~400,000 g mol$^{-1}$ |
| Fluorescence[1] | |
| • Excitation | 680 ± 10 nm |
| • Emission | 700 ± 10 nm |
| Absorbance[1] | 680 ± 10 nm |
| Purity[2] | >95% |
| Appearance | Clear blue solution |

1. Absorbance, excitation, and fluorescence maxima of IVISense™ Pan Cathepsin 680 Fluorescent Probe in 1xPBS.




## STORAGE & HANDLING

- Upon receipt, IVISense™ Pan Cathepsin 680 Fluorescent Probe should be IMMEDIATELY STORED AT 2-8 °C AND PROTECTED FROM LIGHT.
- When stored and handled properly, IVISense™ Pan Cathepsin 680 Fluorescent Probe is stable for up to twelve months from the date of shipment.
- Allow IVISense™ Pan Cathepsin 680 Fluorescent Probe imaging agent to equilibrate to room temperature before injecting into animals.

## IN VIVO IMAGING & APPLICATIONS

- The recommended procedure for in vivo imaging with IVISense™ Pan Cathepsin 680 Fluorescent Probe is administration via tail vein injection and imaging 24 hours post injection.
- Imaging in Arthritis: IVISense™ Pan Cathepsin 680 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 680 Fluorescent Probe can be used as a marker for disease progression in animal tumor model



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**Revvity, Inc.**
940 Winter Street
Waltham, MA 02451 USA
(800) 762-4000
www.revvity.com