Fluorescent Imaging Agent



Research use only. Not for use in diagnostic procedures.

# IVISense™ Integrin Receptor 750 Fluorescent Probe

**Product Number:** NEV10873

## **DESCRIPTION**

IVISense™ Integrin Receptor 750 Fluorescent Probe is a targeted fluorescence imaging agent comprising a potent, selective non-peptide small molecule integrin  $\alpha_V \beta_3$  antagonist and an NIR fluorochrome. This agent has been developed to enable in vivo visualization and quantification of integrin  $\alpha_v \beta_3$  expression in neovasculature as well as in tumor cells, to monitor tumor angiogenesis, growth, and treatment efficacy. Half-life in tissue of IVISense™

Integrin Receptor 750 Fluorescent Probe signal is approximately 4 days.

# **MATERIAL**

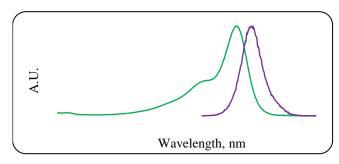
Each vial contains 24 nmol of IVISense™ Integrin Receptor 750 Fluorescent Probe lyophilized solid. The IVISense™ Integrin Receptor 750 Fluorescent Probe solution has been filtered through a 0.2 µm filter prior to lyophilization. Reconstitute IVISense™ Integrin Receptor 750 Fluorescent Probe with 1.2 mL of 1 x PBS before injecting into animals. The packaged material provides sufficient reagent for imaging approximately 10 mice (weighing ~25 grams each) when using the recommended dose of 2 nmol (100 µL) of IVISense™ Integrin Receptor 750 Fluorescent Probe per mouse.

## STORAGE & HANDLING

- Upon receipt, IVISense™ Integrin Receptor 750 Fluorescent Probe should be IMMEDIATELY STORED AT 2-8 °C AND PROTECTED FROM LIGHT.
- When stored and handled properly, IVISense™ Integrin Receptor 750 Fluorescent Probe is stable for up to 12 months in the lyophilized form.

| Property                  | Specification            |
|---------------------------|--------------------------|
| MW                        | 1278 g mol <sup>-1</sup> |
| Fluorescence <sup>1</sup> |                          |
| Excitation                | 755 nm                   |
| Emission                  | 775 nm                   |
| Absorbance <sup>1</sup>   | 748 nm                   |
| Purity <sup>2</sup>       | >95%                     |
| Appearance                | Dark blue-green solid    |

- Absorbance, excitation, and fluorescence maxima of in 1xPBS.
- As determined by RP-HPLC, measuring absorbance at 750nm



- Before opening the vial, ensure that the lyophilized powder is present at the bottom of the vial.
- Once reconstituted, the solution is stable up to 14 days when stored at 2-8°C and protected from light.

#### IN VIVO IMAGING & APPLICATIONS

- The recommended procedure for in vivo imaging with IVISense™ Integrin Receptor 750 Fluorescent Probe is administration via intravenous injection and imaging 24 hours post injection.
- Imaging maybe performed as early as 6 hours with some reduction in target signal/noise. It will clear from tissues after approximately 5. Repeat injection and imaging may be performed every 5 days for
- IVISense™ Integrin Receptor 750 Fluorescent Probe enables imaging of neovasculature and tumors in a range of oncology applications.

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