IVISense™ Integrin Receptor 750 Fluorescent Probe

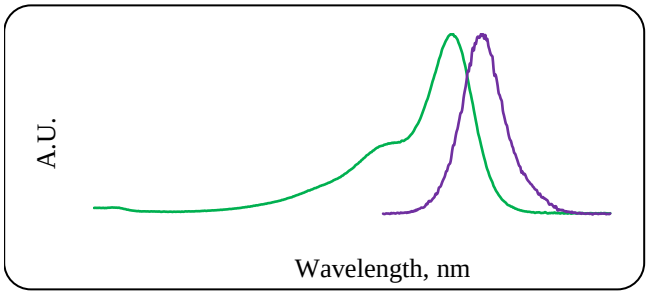
Product Number: NEV10873

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.

Property	Specification
MW	1278 g mol^{-1}
Fluorescence[1]	
• Excitation	755 nm
• Emission	775 nm
Absorbance[1]	748 nm
Purity[2]	>95%
Appearance	Dark blue-green solid

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



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.
- 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 longitudinal studies.
- IVISense™ Integrin Receptor 750 Fluorescent Probe enables imaging of neovasculature and tumors in a range of oncology applications.

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