TECHNICAL DATA SHEET

Fluorescent Imaging Agent

Caution: For Laboratory Use. A product for research purposes only.

PSA 750 FAST™

Product Number: NEV11125

DESCRIPTION

PSA 750 FAST™ is a prostate-specific antigen (PSA) activatable agent that is optically silent upon injection and produces fluorescent signal after cleavage by enzymatically active PSA. Activation only occurs in the presence of active PSA. *PSA 750 FAST*™ may be used to monitor the progression of prostate tumors or to evaluate the potential therapeutic efficacy of drugs targeting the underlying mechanisms involved in these diseases.

CONTENTS

- Each vial contains 24 nmol of *PSA 750 FAST*™ in dry solid form. *PSA 750 FAST*™ has been filtered through a 0.2µm filter prior to drying.
- Reconstitute *PSA 750 FAST*™ with 1.2 mL of 1X PBS before administering to animals.
- The packaged material provides sufficient reagent for imaging approximately 10 mice (weighing ~25 grams each) when using the recommended dose of 2 nmol (in 100 µL of PBS) of *PSA 750 FAST*™ per mouse.

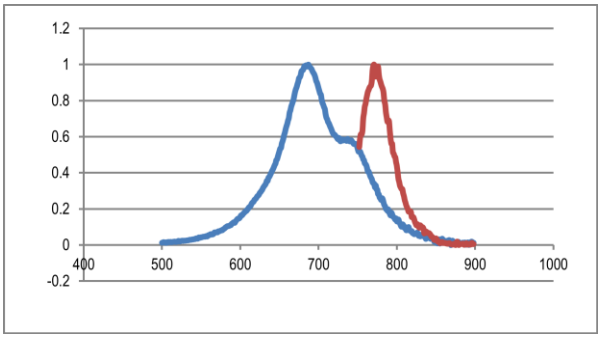
STORAGE & HANDLING

- Upon receipt, *PSA 750 FAST*™ should be **IMMEDIATELY STORED AT 2-8 °C AND PROTECTED FROM LIGHT.**
- When stored and handled properly, *PSA 750 FAST*™ in its dry solid form is stable for up to six months.
- Before opening the vial check to ensure that all of the solid material is at the bottom of the vial.
- After reconstituting with 1X PBS, gently swirl the solution to ensure that the solid is fully in solution.
- **Once reconstituted, *PSA 750 FAST*™ is stable for up to 7 days when stored at 2-8 °C and protected from light.**
- Allow *PSA 750 FAST*™ imaging agent to equilibrate to room temperature before introducing into animals.

PHYSICAL AND SPECTRAL PROPERTIES

Property	Specification
MW	~42,500 g mol^{-1}
Fluorescence emission[1]	770 nm
Absorbance[1]	687 nm (quenched) 750 nm (activated)
Purity[2]	>95 %
Appearance	Blue solid

1. Absorbance and fluorescence maxima in 1x PBS.
2. As determined by RP-HPLC; measuring absorbance at 750 nm.



Normalized absorbance (blue) and fluorescence emission (red) spectra of *PSA 750 FAST*™ in 1x PBS

IN VIVO IMAGING AND APPLICATIONS

- The generally recommended procedure for *in vivo* imaging with *PSA 750 FAST*™ is administration *via* intravenous injection and imaging **6-24 hours post injection**.
- *PSA 750 FAST*™ will clear from tissues after approximately 50 hours. Repeat injection and imaging may be performed every 7 days for longitudinal studies. It is recommended that a pre-injection baseline image be taken prior to reinjection and imaging.
- *PSA 750 FAST*™ enables imaging of PSA positive tumors such as LNCaP implanted in male nude mice.

NOTES

- *PSA 750 FAST*™ is intended for research purposes only and is not for human use. It must be used by or directly under the supervision of a technically qualified individual experienced in handling potentially hazardous materials. Please read the Material Safety Data Sheet (MSDS) provided for this product.

- Several of *PerkinElmer's* products and product applications are covered by U.S and foreign patents and patents pending. Our products are not available for resale or other commercial uses without a specific agreement from *PerkinElmer.*

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