TECHNICAL DATA SHEET

Fluorescent Imaging Agent

Caution: For laboratory use only. This product is intended for animal research only and not for use in humans.

BombesinRSense™ 680

Product Number: NEV10090

DESCRIPTION

BombesinRSense™680 is a fluorescently-labeled peptide designed to bind to bombesin receptors involved in cancer cell stimulation of proliferation.

CONTENTS

- Each vial contains 24 nmol of *BombesinRSense 680* in dry solid form. *BombesinRSense 680* has been filtered through a 0.2µm filter prior to drying.
- Reconstitute *BombesinRSense 680* 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 *BombesinRSense 680* per mouse.

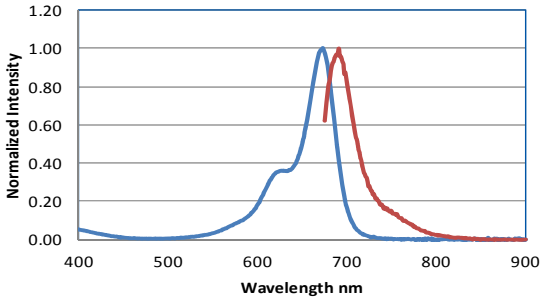
STORAGE & HANDLING

- Upon receipt, *BombesinRSense 680* should be IMMEDIATELY STORED AT 2-8 °C AND PROTECTED FROM LIGHT.
- When stored and handled properly, *BombesinRSense 680* in its dry solid form is stable for up to three 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, *BombesinRSense 680* is stable for up to 7 days when stored at 2-8 °C and protected from light.
- Allow *BombesinRSense 680* imaging agent to equilibrate to room temperature before introducing into animals.

PHYSICAL AND SPECTRAL PROPERTIES

Property	Specification
MW	~24,000 g mol^{-1}
Fluorescence emission[1]	694 nm
Absorbance[1]	674 nm
Purity[2]	>95 %
Appearance	Blue solid

1. Absorbance and fluorescence maxima in 1x PBS.
2. As determined by RP-HPLC; measuring absorbance at 670 nm.



Normalized absorbance (blue) and fluorescence emission (red) spectra of *BombesinRSense 680* in 1x PBS

IN VIVO IMAGING AND APPLICATIONS

- The generally recommended procedure for *in vivo* imaging with *BombesinRSense 680* is administration via intravenous injection and imaging 24-48 hours post injection.
- The tissue half-life of *BombesinRSense 680* is approximately 48 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 re-injection and imaging if repeat injections are to be performed less than1 week apart.
- *BombesinRSense 680* enables imaging of HT-29 tumors implanted subcutaneously in nude mice.

NOTES

- *BombesinRSense 680* 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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