

TECHNICAL DATA SHEET

Fluorescent Imaging Reagent



6-FAM-RIS

Catalogue Number: BV120101

* For Laboratory Use. A product for research purposes only, not for human use.

DESCRIPTION: 6-FAM-RIS is a fluorescent carboxyphosphonate imaging reagent, which can be used for both *in vitro* and *in vivo* studies.

CONTENTS: Each vial contains 24 nmol of 6-FAM-RIS in lyophilized dry solid form. The reagent can be reconstituted with aqueous buffers (calcium/magnesium free PBS buffer, 0.9% NaCl solution, or many other buffers of the customers' choice with near neutral pH).

PROPERTIES: The physical properties of 6-FAM-RIS can be found in **Table 1** and **Figure 1**.

STORAGE & HANDLING:

- Upon receipt, 6-FAM-RIS should be **stored at $\leq -20\text{ }^{\circ}\text{C}$ and protected from light**. When stored and handled properly, 6-FAM-RIS is stable for at least 18 months in dry solid form.
- Before opening the vial, check to ensure that all of the compound is at the bottom of the vial.
- After reconstituting with aqueous buffers, gently swirl the solution to ensure that the solid is fully dissolved in solution.
- Once reconstituted with aqueous buffers, it is highly recommended to aliquot the solutions for longer-term use, and the aliquots should be stored at **$4\text{ }^{\circ}\text{C}$ or $-20\text{ }^{\circ}\text{C}$ and protected from light**.

IMAGING APPLICATIONS:

- Similar reagents were previously applied in mice, rats and rabbits studies at doses of approximately 50-100 nmol/Kg, which could be a starting point for use in other animal models.
- We also have experience using sequential fluorescent reagents, as well as multiple fluorescent reagents in a single administration; and we would be happy to provide technical advice/support if needed. Please send your technical questions to inquiry@biovinc.com.

SELECTED REFERENCES:

Table 1. Properties of 6-FAM-RIS

Parameter	Value
M.W.	715.5 g/mol
Abs Max ¹	493 nm
Em Max ¹	517 nm
Extinction Coefficient ²	73,000 M ⁻¹ cm ⁻¹
Purity ³	> 98 %
Appearance	Orange-Yellow solid

¹UV-VIS absorption and fluorescence emission were measured in 0.1 M phosphate buffer, pH 7.2. The maximum wavelengths shown above have ± 1 nm instrumentation error.

²The extinction coefficient for 6-FAM-RIS is assumed the same as 5-carboxyfluorescein.

³Purity is determined by reverse phase HPLC, ¹H NMR, and ³¹P NMR spectroscopy.

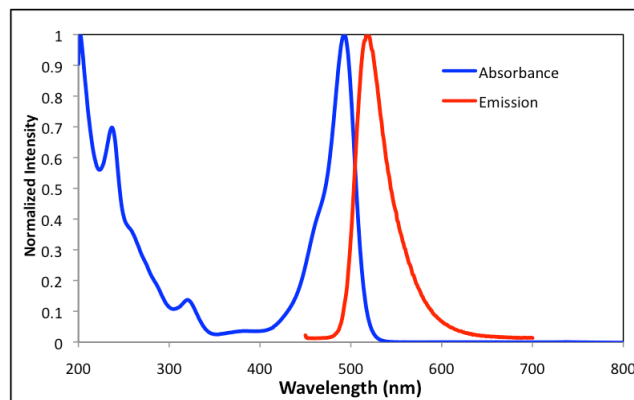


Figure 1. Absorbance and emission spectra of 6-FAM-RIS, in 0.1 M phosphate buffer, pH 7.2

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*For more references, please visit www.biovinc.com/references.

NOTES TO CUSTOMERS:

- BioVinc's fluorescent imaging reagents are offered for research purposes only, and are not intended for human use.
- The purchase of this product conveys to the buyer the limited, non-transferable right to use the purchased amount of the product and the components of the product in research conducted by the buyer. BioVinc's products are not available for resale or other commercial uses without a specific agreement from BioVinc LLC.