**NIR Fluorochrome Label**

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

**VivoTag-S® 750**

**Product Number:** NEV10124

**DESCRIPTION:** VivoTag-S® 750 is an amine reactive (NHS Ester) near-infrared (NIR) fluorochrome for labeling biomolecules for in vivo imaging applications.

**MATERIAL CONTENTS:** VivoTag-S 750: Available in 1 mg or 5 mg vials.

**PROPERTIES:** The physical characteristics of VivoTag-S 750 can be found in Table 1 and Figure 1.

**STORAGE & HANDLING:**

- Upon receipt, VivoTag-S 750 should be IMMEDIATELY STORED AT -20 °C AND PROTECTED FROM LIGHT.
- When stored and handled properly, VivoTag-S 750 is stable for up to twenty four months.
- Allow VivoTag-S 750 to equilibrate to room temperature before using.

**IN VIVO IMAGING AND APPLICATIONS:**

- Optimized in vivo NIR label for labeling target molecules including peptides, small molecules, macromolecules and nanoparticles.

- Labeling of target molecules that have multiple amine reactive sites with >1 fluorochrome results in a blue shift in the absorbance spectra as shown in **Fig. 1**.

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**Table 1. VivoTag-S 750 Characteristics**

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>MW</td>
<td>1183 g mol⁻¹</td>
</tr>
<tr>
<td>Fluorescence¹</td>
<td></td>
</tr>
<tr>
<td>- Excitation</td>
<td>750 ±5 nm</td>
</tr>
<tr>
<td>- Emission</td>
<td>775 ±5 nm</td>
</tr>
<tr>
<td>Absorbance¹</td>
<td>750 ±5 nm</td>
</tr>
<tr>
<td>Extinction</td>
<td>~240,000 M⁻¹cm⁻¹</td>
</tr>
<tr>
<td>Purity²</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>Appearance</td>
<td>Blue solid</td>
</tr>
</tbody>
</table>

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

* MW as Bis TEA Salt

**Fig. 1**

Absorbance and fluorescence emission spectra of VivoTag-S750 in 1x PBS. Arrow indicates shift in absorbance of conjugate with multiple fluorochromes.
NOTES:

- *PerkinElmer’s VivoTag-S 750* 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.

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