Lightning-Link® PE/Cy5 tandem Conjugate Data Sheet

Applicable to: 760-0005, 760-0010, 760-0015, 760-0030.

Release 2               19/04/2016            

PE/Cy5 is a tandem label. In the Lightning Link PE/Cy5 tandem when the PE is excited it functions as a donor and the energy that would be released as PE fluorescence is transferred via FRET (Förster Resonance Energy Transfer) to the acceptor Cy5. Cy5 then emits the energy as red fluorescence.

**Details of the fluorescence**

<table>
<thead>
<tr>
<th>Maximum Absorbance</th>
<th>Maximum Fluorescence Emission</th>
<th>Suggested Excitation Laser Lines</th>
<th>Fluorescence Color</th>
<th>Stokes Shifts</th>
</tr>
</thead>
<tbody>
<tr>
<td>498, 544, 566 nm*</td>
<td>672 nm</td>
<td>488, 532, 561 nm</td>
<td>Red</td>
<td>174, 128, 106 nm</td>
</tr>
</tbody>
</table>

* R-PE has three maxima, and all can be used. The optimal one will depend on the application.

**Scans of the Absorbance and Fluorescence Emission of a Lightning-Link® PE/Cy5 Conjugate**

![Graph showing absorbance and fluorescence emission](image)

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