**Product Description:** cRGD-LC-fluorescein is a fluorescence imaging agent comprising a potent cyclic RGD peptide, c(RGDfK) designed to target integrins and a fluorescein molecule with fluorescence emission at 519 nm. This agent has been developed to target αvβ3 expression in the neovasculature as well as on tumor cells, to monitor angiogenesis and growth and treatment efficacy. The integrin family is comprised of 25 identified members, which are heterodimers of 19 α- and 8 β-subunits imbedded non-covalently into the cell membrane [1]. Generally, linear RGD peptides, such as GRGDS (Gly-Arg-Gly-Asp-Ser), often have low affinity (IC50 > 100 nM) and selectivity for αvβ3 and αIIIβ3 [2], and undergo rapid degradation in serum by a variety of proteases [3]. Cyclic RGD (cRGDFk) has shown elevated binding affinity and selectivity for αvβ3 over αIIIβ3 [2,4].

**Structure of cRGD-LC-Fluorescein**

![Structure of cRGD-LC-Fluorescein](image)

**Spectral Properties in H2O**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorbance max</td>
<td>480 nm</td>
</tr>
<tr>
<td>FL Em max</td>
<td>519 nm</td>
</tr>
</tbody>
</table>

**Product Formulation:** Add 0.1mL of water to vial and pipet up and down to ensure all yellow/orange material is removed from sides of vial and in solution. This will provide a 0.25mM stock solution.

**Storage and Handling:** Store at -20˚C prior to reconstitution. Reconstituted material should be used within two weeks.

**Catalog # | Product Name | Size   | Price (USD)**  
--- | --- | --- | ---  
RG-1003 | cRGD-LC-fluorescein | 25 nmol | $ 249.00  

**References:**


For further information or to place an order please contact Dr. Brian Gray by email: briangray@mtarget.com or phone: 610-738-7938