

## **Product Data Sheet**

Date of Issue: 26 Nov 2019

## 1. Product Information

- Product Name : cRGD, Flamma® 749
- Catalog Number : ARW1301
- $\cdot$  Packing Unit : 0.5 mg / 1 mg / 5 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at 20 °C

## 2. Additional Information

<ul> <li>Fluorophore Label :</li> </ul>	Flamma® 749
• Molecular Weight :	1310 g/mol
• Excitation <sub>Max</sub> :	$749 \pm 3 \text{ nm}$
• Emission <sub>Max</sub> :	$774 \pm 4 \text{ nm}$
• Extinction Coefficient :	$\geq 211,000 /\mathrm{cm} \cdot \mathrm{M}$

## 3. Description

cRGD, Flamma® 749 is an angiogenesis imaging fluorescent probe, made up of a covalent-connection of cyclic RGD with Flamma® 749. Cyclic RGD binds preferentially to  $\alpha\nu\beta3$  integrin with high affinity. Integrin  $\alpha\nu\beta3$  is known to strongly involve in the regulation of angiogenesis. The  $\alpha\nu\beta3$  is generally expressed in low levels on the epithelial cells and mature endothelial cells, but it is highly expressed in many solid tumors. Cyclic RGD peptides are also able to bind  $\alpha\nu\beta5$ ,  $\alpha5\beta1$ ,  $\alpha6\beta4$ ,  $\alpha4\beta1$ , and  $\alpha\nu\beta6$  integrins, which may help enhance their tumor uptake due to the increased receptor population. We offer cRGD, Flamma® 749 as in vivo fluorescent probes for imaging of blood vessels, tumors and angiogenesis.

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. MATERIAL SAFETY DATA: Review the complete Material Safety Data Sheet before use Material Safety Data Sheet (MSDS), Certificate of Analysis (COA) and Technical Information are available at http://www.bioacts.com or upon request.