

# Product Data Sheet

Date of Issue: 26 Nov 2019

## 1. Product Information

- Product Name : cRGD, Flamma® 581
- Catalog Number : ARW1415
- Packing Unit : 0.5 mg / 1 mg / 5 mg
- Appearance : Purple Solid
- Storage Conditions : Protect from Light at - 20 °C

## 2. Additional Information

- Fluorophore Label : Flamma® 581
- Molecular Weight : 1518.75 g/mol
- Excitation<sub>Max</sub> : 581 nm
- Emission<sub>Max</sub> : 596 nm

## 3. Description

cRGD, Flamma® 581 is an angiogenesis imaging fluorescent probe, made up of a covalent-connection of cyclic RGD with Flamma® 581. Cyclic RGD binds preferentially to  $\alpha v \beta 3$  integrin with high affinity. Integrin  $\alpha v \beta 3$  is known to strongly involve in the regulation of angiogenesis. The  $\alpha v \beta 3$  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  $\alpha v \beta 5$ ,  $\alpha 5 \beta 1$ ,  $\alpha 6 \beta 4$ ,  $\alpha 4 \beta 1$ , and  $\alpha v \beta 6$  integrins, which may help enhance their tumor uptake due to the increased receptor population. We offer cRGD, Flamma® 581 as in vivo fluorescent probes for imaging of blood vessels, tumors and angiogenesis.