

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : cRGD, TAMRA
- Catalog Number : ARR1001
- Packing Unit : 0.5 mg / 1 mg / 5 mg
- Appearance : Red Solid
- Storage Conditions : Protect from Light at - 20 °C

2. Additional Information

- Fluorophore Label : TAMRA
- Molecular Weight : 1032.15 g/mol
- Excitation_{Max} : 543 nm
- Emission_{Max} : 575 nm

3. Description

cRGD, TAMRA is an angiogenesis imaging fluorescent probe, made up of a covalent-connection of cyclic RGD with TAMRA dye. Cyclic RGD binds preferentially to $\alpha\beta3$ integrin with high affinity. Integrin $\alpha\beta3$ is known to strongly involve in the regulation of angiogenesis. The $\alpha\beta3$ 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 $\alpha\beta5$, $\alpha5\beta1$, $\alpha6\beta4$, $\alpha4\beta1$, and $\alpha\beta6$ integrins, which may help enhance their tumor uptake due to the increased receptor population. We offer cRGD, TAMRA as in vivo fluorescent probes for imaging of blood vessels, tumors and angiogenesis.