

Product Data Sheet

Date of Issue: 26 Nov 2019

1. Product Information

- Product Name : cRGD, ICG
- Catalog Number : ARO1601
- Packing Unit : 0.5 mg / 1 mg / 5 mg
- Appearance : Green Solid
- Storage Conditions : Protect from Light at - 20 °C

2. Additional Information

- Fluorophore Label : ICG
- Molecular Weight : 1330.64 g/mol
- Excitation_{Max} : 785 nm
- Emission_{Max} : 821 nm

3. Description

cRGD, ICG is an angiogenesis imaging fluorescent probe, made up of a covalent-connection of cyclic RGD with ICG dye. 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, ICG as in vivo fluorescent probes for imaging of blood vessels, tumors and angiogenesis.