Certificate of Analysis

www.tocris.com

Product Name: CD133-A15, 5'-DY647   Catalog No.: 6103   **Batch No.: 1**

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{182}H_{219}F_9N_{58}O_{104}P_{16}$

Batch Molecular Weight: 5549.58

Physical Appearance: lyophilised film

Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 91% purity

Mass Spectrum: Consistent with structure

Product Name: CD133-A15, 5'-DY647   Catalog No.: 6103   **Batch No.: 1**

Description:

CD133-A15, 5'-DY647 is a high affinity fluorescently tagged aptamer for CD133 (AC133 epitope) (K_d values are 33.9 and 83.2 nM in Hep3B and HT29 cells respectively). Efficiently internalized upon binding to CD133. Exhibits superior penetration of tumorspheres compared with an antibody to the same target. For optimal binding aptamers require refolding into their tertiary structure prior to use. Please refer to the protocol for information regarding refolding and aptamer use in unfixed cell imaging and flow cytometry. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

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Physical Appearance: lyophilised film

Solubility & Usage Info:

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Licensing Information:

Sold under license from the patent holder, Deakin University.

References:

Shigdar *et al* (2013) RNA aptamers targeting cancer stem cell marker CD133. Cancer Lett. *330* 84. PMID: 23196060.

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