

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

Product Name: CD133-B19, 5'-DY647

Catalog No.: 6104

Batch No.: 1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>221</sub>H<sub>263</sub>F<sub>10</sub>N<sub>73</sub>O<sub>131</sub>P<sub>20</sub>  
**Batch Molecular Weight:** 6847.32  
**Physical Appearance:** lyophilised film  
**Storage:** Store at -20°C

### 2. ANALYTICAL DATA

**HPLC:** Shows 94% purity  
**Mass Spectrum:** Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Tel:+1 612 379 2956

**Product Name:** CD133-B19, 5'-DY647

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**Batch No.:** 1

**Description:**

High affinity fluorescently tagged aptamer for CD133 (extracellular domain epitope) ( $K_d$  values are 52.3 and 145.1 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 datasheet on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{221}H_{263}F_{10}N_{73}O_{131}P_{20}$

Batch Molecular Weight: 6847.32

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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