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**Product Data Sheet**

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Product Name: CD133-B19, 5'-DY647

Cat. No.: GC50339

**Chemical Properties**

Cas. No.

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> M.Wt 6847.32

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

High affinity fluorescently tagged aptamer for CD133 (extracellular domain epitope) (Kd 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.

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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