
Product Data Sheet

Product Name: Ep23, 5'-DY647

Cat. No.: GC50337

Chemical Properties

Cas. No.

Formula $C_{218}H_{259}F_{13}N_{66}O_{132}P_{20}$ M.Wt 6782.21

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 EpCam ($K_d = 39.42$ nM in HT29 cells). Efficiently internalized upon binding to EpCAM. Exhibits rapid penetration of tumorspheres in vitro, as well as superior penetration, accumulation and retention in tumor xenografts in vivo than 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 (2011) RNA aptamer against a cancer stem cell marker epithelial cell adhesion molecule. Cancer Sci. 102 991 PMID:21281402 | Shigdar et al (2013) The use of sensitive chemical antibodies for diagnosis: detection of low levels of EpCAM in breast cancer. PLoS One. 8 e57613 PMID:23460885 | Xiang et al (2015) Superior performance of aptamer in tumor penetration over antibody: implication of aptamer-based theranostics in solid tumors. Theranostics. 5 1083 PMID:26199647

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

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