

## Custom Conjugation Services – Fluorescent Conjugates

NanoTag Biotechnologies offers Custom Conjugation Services for all available variants of FluoTag<sup>®</sup> reagents. Custom conjugations can be performed with most commercially available fluorophores, provided these are available in a thiol-reactive activated form.

**The Custom Conjugation Service works as follows:**

- You select the fluorophore you require and the FluoTag<sup>®</sup> variant (see below) for conjugation.
- After consultation with us, either you purchase the activated dye and send us the unopened original vial or we purchase the dye and add the costs to your invoice.
- We carry out the conjugation reaction, including the following aspects:
  - Provision of the unconjugated sdAb as input material
  - Conjugation reaction according to established standard protocols
  - Removal of excess dye by gel filtration (group separation)
- We perform a standard quality control by photometric determination of the degree of labeling (DOL) if applicable. The precise determination of DOL requires accurate absorption coefficients and correction factors for absorption at 280 nm.
- You will receive an amount corresponding to **two vials** of the corresponding FluoTag<sup>®</sup> product, lyophilized from PBS + 2% BSA (US origin). Other formulations are available on request and might be subject to extra charges.

**Important Note:**

- Due to the unknown nature and properties of the fluorophores selected by the customer, NanoTag Biotechnologies cannot guarantee for the performance of the product.

**Cost:**

- The standard Custom Conjugation Service is 850 €/ 1105 \$ (+ costs for the dye and shipping costs)

**FluoTag<sup>®</sup> variants** (only a selection of these variants might be available for a given sdAb)

- **FluoTag<sup>®</sup>-Q:** A single sdAb conjugated to a single fluorophore, minimal spacing between target protein and the fluorophore. Ideal for quantitative readout once a small fluorophore/dye is conjugated.
- **FluoTag<sup>®</sup>-QC:** A single sdAb conjugated to a single fluorophore/label. More relaxed positioning of the fluorophore/dye also allowing for large size and optimal accessibility of the conjugated moiety.
- **FluoTag<sup>®</sup>-X2:** A single sdAb conjugated to two fluorophores/labels, our standard variant.
- **FluoTag<sup>®</sup>-X4:** A blend of two different FluoTags<sup>®</sup>-X2 that bind to a single target. FluoTag<sup>®</sup>-X4 reagents effectively label the target (T) with 4 fluorophores in total, resulting in brighter signals. **For custom conjugations of FluoTags<sup>®</sup>-X4, two individual custom conjugation reactions have to be ordered, one for each of both FluoTags<sup>®</sup>-X2 variants in the blend.**

**Only for research applications, not for diagnostic or therapeutic use!**