BENAROYA RESEARCH INSTITUTE
Virginia Mason

Tetramer Lab Core
Standard Protocols

Peptide Loading

Quickly thaw the biotinylated monomers in a room temperature water bath and dilute the monomers to a concentration of 0.5 mg/mL with 0.1 M phosphate buffer. Monomers are next incubated with 0.4 mg/ml of peptides (i.e., for every 50 µl of monomer, use 1 µl of 20 mg/mL peptides) at 37°C for 72 h in the presence of 2.5 mg/ml n-Octyl β-D-glucopyranoside (OG) and 1 mM Pefabloc SC (Sigma–Aldrich, St. Louis, MO). Peptide loaded monomers were subsequently conjugated into tetramers using R-PE streptavidin (ThermoFisher scientific, Waltham, MA) or fluorochromes of interest at a molar ratio of 8:1.