



FRED HUTCH

# Immune Monitoring

FRED HUTCHINSON CANCER RESEARCH CENTER  
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## Research-Grade Tetramers FAQ

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### What is the molecular weight of a tetramer?

Molecular weight of a monomer is about 46 kDa. MW of a tetramer is  $4 \times 46$  plus the MW of the streptavidin. For APC-conjugated tetramer, the MW is about 350 kDa; PE-conjugated tetramer is about 480 kDa.

### What is the buffer that monomers and tetramers are stored in?

Both monomers and tetramers are stored in TNE buffer: 20 mM Tris-HCl pH 8.0, 150 mM NaCl, and 2 mM EDTA.

### What are the storage conditions?

We recommend storing tetramers in 4 C and monomers in -80 C.

### Do tetramers expire?

Generally, tetramers are intact for three to six months. Some tetramers are stable and can last over a year, while some tetramers are unstable.

### How much tetramer should be used in a flow cytometric analysis?

We suggest titrating tetramer at the beginning. Starting at 1  $\mu$ g and titrating down is a good idea. If it has been stored in 4 C for some time, retesting before an important experiment is recommended.

### What alleles do you have for MHC Class-I tetramers?

Please review our [tetramer production services](#) on the Immune Monitoring shared resource website. Contact us if you don't find the alleles on the list.

## Do I need to provide peptides for tetramer production?

We have a large collection of commonly used T cell epitope peptides in our lab. Please check with us for availability. If we don't have a peptide in our lab, please bring in at least 2 mg crude peptide as powder or in DMSO at a concentration of 5-20 mg/mL. We can also order the peptides for you for a reagent fee.