Sigma-Aldrich®

Product Information

FLAG® Peptide

F3290

Storage Temperature 2-8 °C

Product Description

Molecular Weight: 1013.0

Sequence: N-Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys-C (synthetic octapeptide)

The FLAG® Peptide is useful for the competitive elution of amino-terminal, Met-amino-terminal or carboxy-terminal FLAG® fusion proteins from the ANTI-FLAG® M1 or M2 monoclonal antibody in solution or bound to agarose gel. A working concentration of 100 μ g/mL is commonly used to elute FLAG® fusion proteins from the ANTI-FLAG® M1 and M2 affinity resins.²-4 Five one-column volumes of the working solution are sufficient to elute most FLAG® fusion proteins.

Various publications have used the FLAG® Peptide (Cat. No. F3290) at other concentrations, which we have not necessarily tested, such as:

- 150 μg/mL⁵
- 200 μg/mL⁶
- 250 μg/mL⁷
- 300 μg/mL^{8,9}
- 0.5 mg/mL (500 μg/mL)¹⁰

The FLAG® Peptide will not elute 3X FLAG® fusion proteins. For this application, use the 3X FLAG® Peptide (Cat. No. F4799).

Precautions and Disclaimer

For research use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

To prepare a stock solution, dissolve in TBS (10 mM Tris-HCl, 150 mM NaCl, pH 7.4) to a final concentration of 5 mg/mL. Aliquot and store at -20 °C. Repeated freezing and thawing is **not** recommended.

Storage/Stability

Store the lyophilized powder at 2-8 °C. After reconstitution, aliquot and store at -20 °C. Repeated freezing and thawing is **not** recommended.

Procedure

Elution of FLAG® Fusion Proteins by Competition with FLAG® Peptide: Elute the bound FLAG® fusion protein from the ANTI-FLAG® M1 or M2 affinity resin by competitive elution with five one-column volumes of a solution containing 100 µg/mL FLAG® peptide in TBS.

References

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