Poly DYKDDDDK Tag Peptide lyophilized powder (3X DYKDDDDK Tag peptide)

Description

Poly DYKDDDDK Tag Peptide lyophilized powder(3X DYKDDDDK Tag Peptide) is a polypeptide composed of 23 amino acids with a molecular weight of 2864 Da, which can bind Anti-DYKDDDDK Tag antibody through competition, so that the antibody bound to Anti-DYKDDDDK Tag antibody can be eluted during immunoprecipitation DYKDDDDK Tag fusion expression protein. The motif Asp-Tyr-Lys-Xaa-Xaa-Asp in the polypeptide is repeated three times, and the 8 amino acids at the carbon-terminus constitute the classic DYKDDDDK Tag (Asp-Tyr-Lys-Asp-Asp-Asp-Asp-Lys).

Properties

Appearance (Color)	White
Appearance (Form)	Powder
Form	Lyophilized Powder
Purity by HPLC-MS	95.33 %
Concentration	(Recommended working concentration is 200-400 μg/mL for elute DYKDDDDK Tag fusion proteins from the Anti-DYKDDDDK Tag beads.
Shipped in	Blue ice
Storage Temperature	2-8°C

Application

For use in competitive elution of DYKDDDDK Tag fusion proteins from the ANTI-DYKDDDDK Tag monoclonal antibody in solution or bound to agarose on the Anti-DYKDDDDK Tag beads.

Notice

1. Read the User Manual carefully before the first use;
2. Avoid freezing, drying and high-speed centrifugation during use and storage of beads;
3. This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Procedure

1. Thoroughly suspend the Anti-DYKDDDDK Tag beads in the vial, for a uniform suspension of the resin. Quickly transfer 10μl of the gel suspension (about 5μl of packed gel volume) to a fresh tube.

2. Add 0.6 mL TBS. Thoroughly suspend the Anti-DYKDDDDK Tag beads by pipetting. Centrifuge the resin at 5000 rpm for 30 seconds and carefully remove the supernatant. Be sure to remove all of the wash buffer without discarding the resin. Repeat 3-4 times.

3. Add 500 μL of cell periplasmic extracts to the washed resin.

4. Gently agitate samples for 2 hours at 4°C.

5. Centrifuge the resin for 30 seconds at 5000 rpm. Transfer the supernatants to a fresh tube.

6. Wash the resin with 0.5mL TBS until the OD280 of the supernatant reads＜0.05.

7. Elution of DYKDDDDK Tag Fusion Protein by Competition with Poly DYKDDDDK Tag Peptide. Elute the bound DYKDDDDK Tag Fusion Protein by competitive elution with five one-column volume aliquots of a solution containing 200-400 ug/mL Poly DYKDDDDK Tag Peptide in TBS.

8. Recycle the Anti-DYKDDDDK Tag beads.
Poly DYKDDDDK Tag Peptide may not elute all of the DYKDDDDK Tag Fusion Protein bound to Anti-DYKDDDDK Tag beads. It is recommended the Anti-DYKDDDDK Tag beads be regenerated immediately after use by washing with three 5 mL aliquots of 0.1 M glycine HCl, pH 3.5. The gel should be immediately re-equilibrated in TBS until the effluent is at neutral pH.
Note: Do not leave the Anti-DYKDDDDK Tag beads in glycine HCl for longer than 20 minutes.

9. Store the Anti-DYKDDDDK Tag beads
Wash the Anti-DYKDDDDK Tag beads three times with 5 mL of 50% glycerol with 10mM sodium phosphate, 150 mM sodium chloride, pH 7.4, containing 0.02% (w/v) sodium azide. Then add another 5 mL of 50% glycerol with 10 mM sodium phosphate, 150 mM sodium chloride, pH 7.4, containing 0.02% (w/v) sodium azide and store at -20°C without draining.

Storage

Store the product at 2-8°C for 2 years.

Order & Inquiry
Toll Free: (877) 796-6397 (US and Canada only)
Tel: (832) 582-8158
Fax: (832) 582-8590
E-mail: sales@selleckchem.com