
Glutathione-Affarose

Product Description

Name :	Glutathione - Affarose
Catalog Number :	UPT92940, 2x5ml columns UPU65970, 10ml gel UPU65980, 10ml gel (X-treme Affarose)
Matrix :	Affarose (4% modified Agarose)
Linkage :	Through the sulfur of glutathione
Binding capacity:	Approx. 5-6 mg of bovine liver GST per ml of gel
Stability of the matrix :	pH 2-11
Shelf life of the matrix :	Several years, if stored at 4°C in the presence of Sodium Azide 0.02 %
Number of use :	10 times without loss of binding activity
Storage:	+4°C in PBS pH 7.4, NaN ₃ 0.02%

Technical and Scientific Information

- The Glutathion S-Transferase (GST) gene fusion technique is widely used to obtain large amount of a protein of interest. Applications cover study of the function of protein, purification interacting factors, and production of antibodies. The produced recombinant protein is fused with GST, that can be removed using a specific endopeptidase (thrombin, or Factor Xa). The entire GST-protein is injected for Ab production when the fusion region encodes a non or weak immunogenic peptide (10-50 aminoacids), or when the fused protein is cleaved it self by Thrombin or Factor XA, using the fact GST serves as a carrier. In this case, antibodies recognizing GST should be removed by affinity with an affinity technique.
- The GST shows a very high affinity with the Glutathion. This property is used to purify GST-Protein with Glutathion linked on beads. Our Glutathione is linked on our proprietary Affarose gel (a 4% crosslinked modified Agarose) through the sulfur group. It is also available as pre-Packed column allowing to perform the purification in one single step.

Directions for Use

Suggested protocol :

- 1- Equilibrate the column with at least 5 gel beds volumes of PBS.
- 2- Apply the lysate to the column. Let it enter the gel.
- 3- Wash the column with at least 10 bed volumes of PBS or until no protein can be detected in the eluate.
- 4- Elute with 5 gel beds volumes of 50 mM Tris, pH 8, containing 10 mM reduced Glutathione. Collect the fractions.
- 5- Regenerate the column by applying 5 bed columns volumes of PBS containing 3M NaCl.
- 6- To store properly the column, equilibrate it with PBS containing 2 mM Sodium Azide and store at + 4°C.

For any question,
contact your local distributor

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