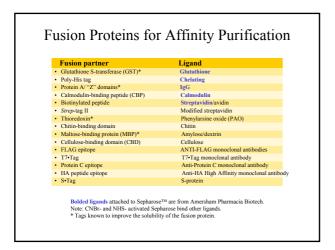
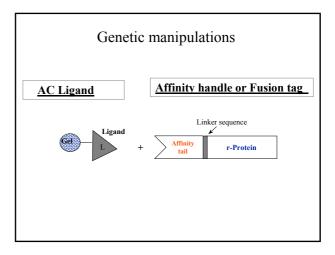
Purification of recombinant fusion proteins

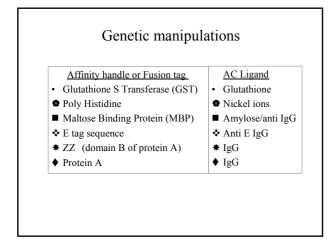
Purification of recombinant proteins

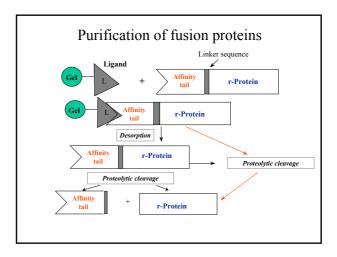
Examples

- Fusion protein
 - Soluble in cytoplasm
 - Inclusion bodies
- Non-fusion protein
 - Inclusion bodies
 - Expressed in periplasm



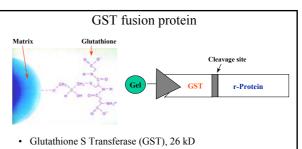




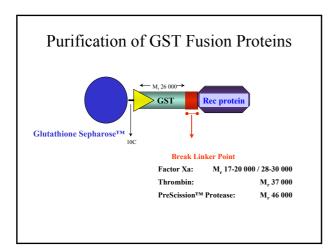


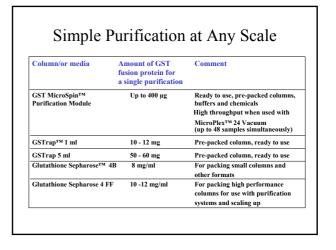
GST gene fusion system

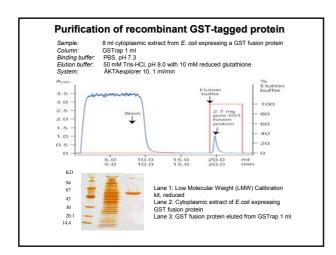
- Integrated system for
 - expression
 - purification
 - detection of glutathione S- transferase fusion proteins in E. coli
- Includes
 - choice of ten GST expression vectors
 - purification module
 - detection module

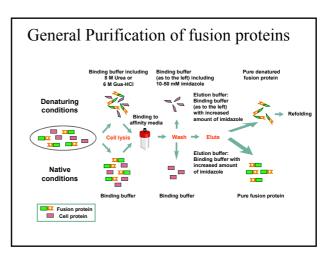


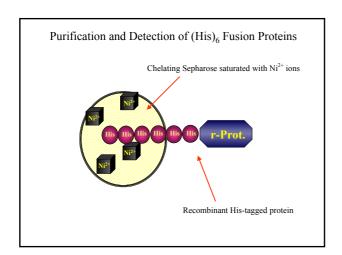
- · GST is fused via its C terminus to the target protein
- Binds to Glutathione Sepharose 4B even in 8M Urea or 6M Guanidine HCl
- Thrombin, Factor Xa and PreScissionTM Protease cleavage site at C terminus of GST
- GST activity is easily assayed.

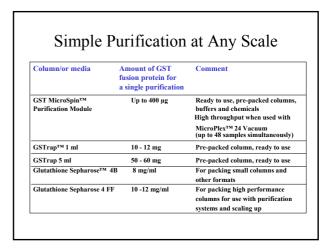






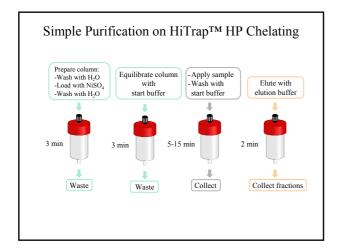


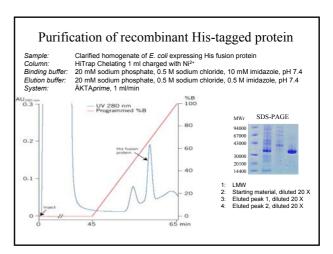


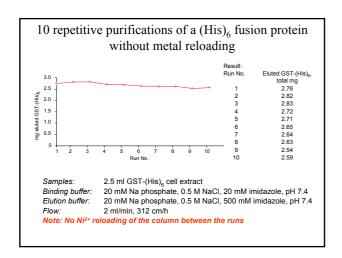


His MicroSpinTM Purification Module For screening, optimization of protein amplification and small scale purification • Ready to use, 50 pre-packed columns with buffers and chemicals • Purify up to 100 µg His tagged protein per column









Chelating Sepharose™ Fast Flow

For packing high performance columns used with purification systems and for scaling up

- Purify up to 12 mg per ml of medium
- Use with XK columns connected to an ÄKTATMdesign system
- Run at high flow rates
- · Compatible with additives

May require development and optimization

Detection method	Comments
Western blot analysis using anti-His antibody and ECL TM detection systems.	Highly specific, detects only (His) ₆ fusion protein. Little or no background when used at optimized concentrations with secondary HRP conjugated antibody. ECL detection systems enhance detection in Western blot ECL provides adequate sensitivity for most recombinant expression applications. For higher sensitivity use ECL Plus™.
SDS-PAGE with Coomassie TM Blue or silver staining.	Provides information on size and % purity. Detects fusion protein and contaminants.

Detection of (His)₆ Fusion Proteins

