

Protein expression

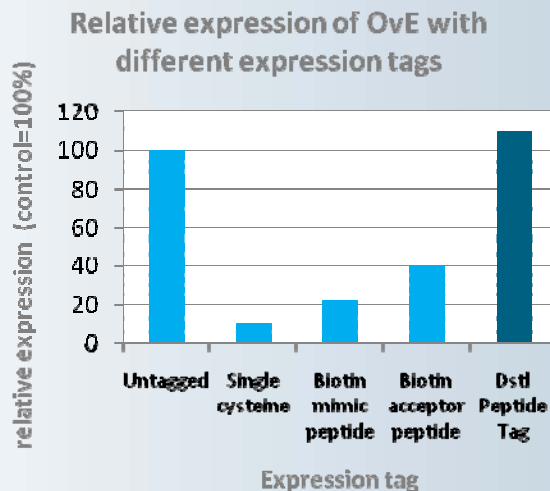
Background

Scientists at the Defence Science and Technology Laboratory (Dstl) in the UK have developed a novel peptide tag which allows recombinant proteins to be easily immobilised onto a surface, and also improves their expression and production.

Technology

Improves both the expression and production of recombinant proteins and their attachment to surfaces. A novel peptide tag is used which:

- Provides a chemically-reactive centre that can be used to attach the protein to a surface, without affecting the structure or activity of the rest of the protein.
- Can improve the expression of recombinant proteins by assisting in the correct folding of the modified protein.



Benefits

- Demonstrated in both prokaryotic and eukaryotic expression systems (*E coli* and *Pichia pastoris*)
- Does not affect the biological activity of the protein
- Does not reduce protein expression levels
- One-step immobilisation onto gold surfaces
- Easy chemical attachment to other surfaces or molecules

Intellectual property

Patent pending and published (WO 2010/020777); further details are available under confidentiality.

Licenses are available for this technology in a number of different application areas.

Applications

- Production of diagnostic/detection biosensor systems
- Therapeutic protein production
- Protein expression systems
- Industrial enzyme production

Licensing & Partnering Opportunity

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