

Field of use

Monoclonal antibodies
Downstream processing

Current state of technology:

Laboratory tested

Intellectual property

International patent application
PCT/EP2019/052484

Publications

Kruljec N. et al. 2018,
Bioconjugate Chem 29(8):
2763-

Developed by

University of Ljubljana,
Faculty of Pharmacy

Reference

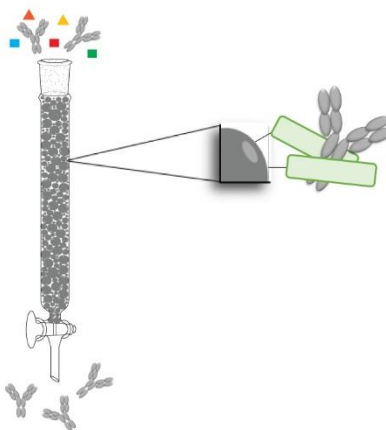
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Contact

Knowledge Transfer Office

Gabriela Droga Mazovec
Phone: +386 1 241 85 83
E-mail: ipr@uni-lj.si

ppz.uni-lj.si



Background

There is increasing interest in development of alternative antibody ligands to improve affinity chromatography methods. The most commonly used affinity matrices are based on bacterial immunoglobulin-binding proteins such as staphylococcal protein A (SpA) and streptococcal protein G (SpG). However, such affinity ligands suffer from several drawbacks.

Description of the Invention

The invention relates to the ligand variants with binding affinity for the Fc region of immunoglobulins G and the application of such peptides and variants thereof for antibody purification based on affinity chromatography, indirect antibody labelling, antibody detection or immobilization of antibodies to solid support.

Main Advantages

The invention enables affordable and cheaper substitute for currently used SpA. In contrast to SpA, the ligands of the invention bind all IgG subclasses. Further on, they have more favorable toxicity and immunogenicity profiles, and their stability is relatively high.