

METHOD AND MATERIALS FOR MODIFICATION OF SERUM ALBUMIN

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PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	11,135,299	10/05/2021	2015-123

BRIEF DESCRIPTION

Serum albumin is an abundant and long-lived blood protein. These characteristics as well as the localization of albumin within the body make it a promising component of diagnostic and therapeutic applications. For example, bioconjugation to albumin has been used to extend the half-life of short-lived therapeutics in serum.

Researchers at UC Berkeley have developed a novel technology to selectively modify albumin. These methods were superior to other albumin modification methods in their hydrolytic stability, solubility, and ease of synthesis.

SUGGESTED USES

- Extending serum half-life of therapeutic molecules
- Use of albumin in an adjuvant or vaccine
- Diagnostic biomedical imaging
- Analytical tool for basic research

ADVANTAGES

- Ability to use short-lived therapeutics
- Easy synthesis
- Improved hydrolytic stability
- Improved solubility
- Superior selectivity of modification

RELATED MATERIALS

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- [Synthetic compound for quadricyclane labeling of multiple biomolecules without disrupting living systems](#)
- [Alkyne-Activated Fluorogenic Azide Probes](#)

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