

# Biotinylated AGE-BSA

<b>CATALOG #:</b>	7929-250 7929-1000	250 µg 1 mg
<b>ALTERNATE NAMES:</b>	Glycoaldehyde-AGE-BSA Biotinylated, Advanced Glycation End product (AGE)-BSA, Biotin AGE-BSA	
<b>FORM:</b>	Liquid.	
<b>FORMULATION:</b>	5 mg/ml of 0.22 µm filter sterilized solution in 1X PBS	
<b>HANDLING:</b>	Biotinylated AGE-BSA may precipitate during extended storage. Sonication can be helpful to solubilize the precipitates in such cases.	
<b>STORAGE CONDITIONS:</b>	4°C for 1 week or -70°C for long-term storage. Avoid multiple freeze / thaw cycles as activity may decrease.	

**BACKGROUND:** The Biotinylated AGE-BSA was produced by biotinylation of AGE-BSA (Cat. # 2221-10) with Sulfo-NHS-LC-Biotin (Cat. # 2326). Prior to biotinylation, AGE-BSA was produced by reacting BSA with Glycoaldehyde under sterile conditions followed by extensive dialysis and purification steps. Fluorescence of AGEs was confirmed by fluorescence spectrophotometry with Ex./Em. = 370/440 nm. Glycated BSA shows a 7000% increase in fluorescence in compared to control BSA.

**LABELING EFFICIENCY:** BioVision's Biotinylated AGE-BSA was estimated to contain ~1-2 biotin/BSA (As tested using Biotin Quantitation Kit (K811-100)).

**DESCRIPTION:** Advanced glycation end products (AGEs) accumulate with age and at an accelerated rate in diabetes. AGEs bind cell-surface receptors including the receptor for AGE (RAGE). AGEs therefore have been implicated in the pathogenesis of diabetes, induction of proinflammatory cytokines, and stimulation of smooth muscle proliferation, and fibronectin production.

**APPLICATIONS:** Biotinylation of AGE-BSA allows for its pull-down and purification by Streptavidin-Sepharose beads (Cat. # 6565).

## RELATED PRODUCTS:

- Biotin Quantitation Kit (**K811-100**)
- Streptavidin Sepharose (**6565-2, 5, 10**)
- BSA-AGE (**2221-10**)
- Glucose AGE-BSA (**2223-10**)
- BSA (10% in H<sub>2</sub>O) (**2119-10**)
- Biotinylated Glucose AGE-BSA-II (**7930-250, 1000**)
- Biotinylated BSA (**7097, 7098, 7099**)
- BSA Antibody (**5998-100**)
- BSA – Cohn Fraction V, pH – 5.2 (**7904-5, 25, 100**)
- BSA – Cohn Fraction V, pH – 7.0 (**7905-5, 25, 100**)
- BSA – Cohn Fraction V, Immunoassay Grade, Protease Free, pH – 7.0 (**7906-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Free, pH – 7.0 (**7907-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Free, pH – 5.2 (**7908-5, 25, 100**)
- BSA – Cohn Fraction V, Endotoxin Low, pH – 7.0 (**7909-5, 25, 100**)
- BSA – Cohn Fraction V, Endotoxin Low, pH – 5.2 (**7910-5, 25, 100**)
- BSA – Cohn Fraction V, Immunoassay Grade, Protease Free, pH – 5.2 (**7911-5, 25, 100**)
- BSA – Cohn Fraction V, Fatty Acid Low, pH – 7.0 (**7912-5, 25, 100**)
- Biotinylated BSA (Biotin-LC-BSA) (3 biotin/BSA) (**7097-5, 25**)
- Biotinylated BSA (Biotin-LC-BSA) (5 biotin/BSA) (**7098-5, 25**)
- Biotinylated BSA (Biotin-LC-BSA) (12 biotin/BSA) (**7099-5, 25**)
- Bovine Serum Albumin – Fraction V, 30% Solution (**7914-100, 500**)
- BSA – Heat Shock, pH – 7.0 (**7915-5, 25, 100**)
- BSA – Heat Shock, pH – 5.2 (**7916-5, 25, 100**)
- BSA – Heat Shock, Diagnostic Grade pH – 7.0 (**7918-5, 25, 100**)
- BSA – Heat Shock, Protease Free pH – 7.0 (**7919-5, 25, 100**)
- BSA – Heat Shock, Protease DNASE Free pH – 7.0 (**7920-5, 25, 100**)
- BSA – Heat Shock, Fatty Acid Free pH – 7.0 (**7921-5, 25, 100**)
- BSA – Heat Shock, Low Endotoxin pH – 7.0 (**7922-5, 25, 100**)

**For Research Use Only! Not to be used in humans.**