BSA Native Protein

PRODUCT OVERVIEW

Product Name	BSA, Native Protein
Full Product Name	BSA (Protease free)
Product Gene Name	BSA native protein
Product Synonym Names	Bovine Serum Albumin Protease free
Host	Bovine
Form/Format	Supplied as a lyophilized powder.
Purity/Purification	> 99% pure Heat shock method
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	69,293 Da
3D Structure	ModBase 3D Structure for P02769
Source Note	Bovine Plasma
Protein Type	Native
Product Categories/Family for BSA native protein	Veterinary; Native Protein
Applications Tested/Suitable for BSA native protein	User optimized
Related Product Information for BSA native protein	MBS537243 is a native protein targeting BSA. Also known as BSA (Protease free). Host: Bovine. Protease free Bovine Serum Albumin
Product References and Citations for BSA native protein	Functional properties and in vitro trypsin digestibility of red kidney bean (Phaseolus vulgaris L.) protein isolate: Effect of high-pressure treatment; Shou-Wei Yin, Chuan-He Tang, Qi-Biao Wen, Xiao-Quan Yang, Lin Li (Food Chemistry: Volume: 110 Issue: 4 Page: 938-945 DOI: 10.1016/j.foodchem.2008.02.090) A comparative study of physicochemical and conformational properties in three vicilins from Phaseolus legumes: Implications for the structure-function relationship; Chuan-He Tang, Xin Sun (Food Hydrocolloids: Volume: 25 Issue: 3 Page: 315-324 DOI: 10.1016/j.foodhyd.2010.06.009) Structure-physicochemical function relationships of 7S globulins (vicilins) from red bean (Phaseolus angularis) with different polypeptide constituents; Chuan-He Tanga, Xin Sun (Food Hydrocolloids: Volume: 25 Issue: 3 Page: 536-544 DOI: 10.1016/j.foodhyd.2010.08.009) The relationships between physicochemical properties and conformational features of succinylated and acetylated kidney bean (Phaseolusvulgaris L.) protein isolates; Shou-Wei Yina, Chuan-He Tanga, Qi-Biao Wena, Xiao-Quan Yanga, De-Bao Yuan (Food Research International: Volume: 43 Issue: 3 Page: 730-738 DOI: 10.1016/j.foodres.2009.11.007)
Other Notes	Small volumes of BSA native protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BSA. It may not necessarily be applicable to this product.

NCBI GI #	3336842

NCBI GeneID	280717
NCBI Accession #	CAA76847.1
UniProt Primary Accession #	P02769
UniProt Secondary Accession #	O02787; P04277; Q3SZR2; A5PJX3
UniProt Related Accession #	P02769
NCBI Official Full Name	bovine serum albumin
NCBI Official Symbol	ALB
UniProt Protein Name	Serum albumin
UniProt Synonym Protein Names	BSA; Allergen: Bos d 6
UniProt Gene Name	ALB
UniProt Entry Name	ALBU_BOVIN
NCBI Protein Information	serum albumin
UniProt Comments for BSA	albumin: Serum albumin, the main protein of plasma, has a good binding capacity for water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc Protein type: Secreted; Carrier; Secreted, signal peptide Cellular Component: protein complex; cytoplasm; extracellular region; nucleus Molecular Function: toxin binding; DNA binding; metal ion binding; chaperone binding; drug binding; oxygen binding; fatty acid binding; pyridoxal phosphate binding Biological Process: retinal homeostasis; transport; maintenance of mitochondrion localization; hemolysis by symbiont of host red blood cells; cellular response to starvation; negative regulation of apoptosis
Research Articles on BSA	**1.** Data (including data from biophysical studies using Langmuir lipid monolayer technique) suggest that human/bovine ALB exhibits minimal electrostatic repulsion and inserts effectively into phospholipid monolayers. [REVIEW]
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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