



Recombinant Bovine Angiotensin-converting enzyme (ACE)

Product Code	CSB-BP001149BO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P12820
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	≥85% (SDS-PAGE)
Sequence	EL DPALQPGNFP ADEAGAQIFA ASFNSSAEQV LfqSTAASWA HDTNITEENA RLQEEAALLS QEFSEAWGQK
Source	Baculovirus
Target Names	ACE
Protein Names	Recommended name: Angiotensin-converting enzyme Short name= ACE EC= 3.2.1.- EC= 3.4.15.1 Alternative name(s): Dipeptidyl carboxypeptidase I Kininase II CD_antigen= CD143
Expression Region	29-100
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Extracellular domain
Target Details	This gene encodes an enzyme involved in catalyzing the conversion of angiotensin I into a physiologically active peptide angiotensin II. Angiotensin II is a potent vasopressor and aldosterone-stimulating peptide that controls blood pressure and fluid-electrolyte balance. This enzyme plays a key role in the renin-angiotensin system. Many studies have associated the presence or absence of a 287 bp Alu repeat element in this gene with the levels of circulating enzyme or cardiovascular pathophysiology. Two most abundant alternatively spliced variants of this gene encode two isozymes - the somatic form and the testicular form that are equally active. Multiple additional alternatively spliced variants have been identified but their full length nature has not been determined.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.