



# Recombinant Bovine Endonuclease G, mitochondrial (ENDO G)

<b>Product Code</b>	CSB-EP007665BO-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P38447
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bos taurus (Bovine)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	AG LPAVPGAPAG GPGELAKYG LPGVAQLKSR ASYVLCYDPR TRGALWVVEQ LRPEGLRGDG NRSSCDFHED DSVHAYHRAT NADYRGSFGD RGHAAAAANH RWSQKAMDDT FYLSNVAPQV PHLNQNAWNN LEKYSRSLTR TYQNVYVCTG PLFLPRTEAD GKSIVKYQVI GKNHVAVPTH FFKVLILEAA GGQIELRSYV MPNAPVDEAI PLEHFLVPIE SIERASGLLF VPNILARAGS LKAITAGSK
<b>Source</b>	E.coli
<b>Target Names</b>	ENDO G
<b>Protein Names</b>	Recommended name: Endonuclease G, mitochondrial Short name= Endo G EC= 3.1.30.-
<b>Expression Region</b>	49-299
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This protein is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA.
<b>Reconstitution</b>	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.
<b>Shelf Life</b>	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.