

Recombinant Cattle LPO Protein, His&GST-tagged

Cat. No. LPO-1094C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle LPO Protein (Lys522-Thr698) with His&GST tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Lys522-Thr698
Description	This gene encodes a member of the peroxidase family of proteins. The encoded preproprotein is proteolytically processed to generate the mature enzyme. Following its secretion from salivary, mammary, and other mucosal glands, this enzyme catalyzes the generation of the antimicrobial substance hypothiocyanous acid. This gene is present in a gene cluster on chromosome 17. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 50.36 kDa; Accurate Molecular Mass: 50 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
GENE INFORMATION	
Gene Name	LPO lactoperoxidase [Bos taurus (cattle)]
Official Symbol	LPO
Synonyms	LPO; lactoperoxidase; SPO; salivary peroxidase; MGC129990; MGC129991;
Gene ID	280844
mRNA Refseq	NM_173933
Protein Refseq	NP_776358
UniProt ID	P80025

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