

Recombinant Cattle CSN2 Protein, His-tagged

Cat. No. CSN2-2752C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle CSN2 Protein (Arg16-Val224) with N-His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Arg16-Val224
Description	This gene is a member of the beta casein family. There are two types of casein protein, beta (encoded by this gene) and kappa, both of which are secreted in human milk. Beta casein is the principal protein in human milk and the primary source of essential amino acids for a suckling infant. Beta and kappa casein proteins acting together form spherical micelles which bind within them important dietary minerals, such as calcium and phosphorous. In addition, the C-terminal 14 aa of the protein has antimicrobial activity, especially in preterm milk, displaying antibacterial activity against <i>S. aureus</i> and <i>Y. enterocolitica</i>. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 27.3 kDa Accurate Molecular Mass: 30 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

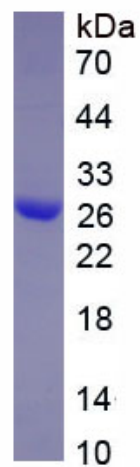
GENE INFORMATION

Gene Name	CSN2 casein beta [Bos taurus (cattle)]
Official Symbol	CSN2
Synonyms	CSN2; casein beta; beta-casein; beta casein B; beta-caesin; milk protein
Gene ID	281099
mRNA Refseq	XM_010806178
Protein Refseq	XP_010804480
UniProt ID	P02666

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