Recombinant Cattle CASP3 Protein, His-tagged

Cat. No. CASP3-623C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle CASP3 Protein (Ser29-Asp175) with His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Ser29-Asp175
Description	Involved in the activation cascade of caspases responsible for apoptosis execution. At the onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-|-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Triggers cell adhesion in sympathetic neurons through RET cleavage.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.2 kDa; Accurate Molecular Mass: 18 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by

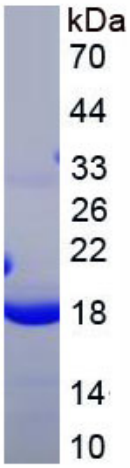
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	accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
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	CASP3 caspase 3 [Bos taurus (cattle)]
Official Symbol	CASP3
Synonyms	CASP3; caspase 3; caspase-3; CASP-3; caspase 3, apoptosis-related cysteine peptidase; EC 3.4.22.56
Gene ID	408016
mRNA Refseq	NM_001077840
Protein Refseq	NP_001071308
UniProt ID	Q08DY9

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