

Recombinant Rat Calca Protein, His&SUMO-tagged

Cat. No. Calca-862R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Calca Protein (Cys85-Pro116) with His&SUMO tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Cys85-Pro116
Description	Predicted to enable calcitonin receptor binding activity and identical protein binding activity. Involved in several processes, including cellular response to nerve growth factor stimulus; cellular response to tumor necrosis factor; and vasodilation. Located in several cellular components, including axon; extracellular space; and neuronal cell body. Used to study acute necrotizing pancreatitis; ischemia; and stomach disease. Biomarker of prediabetes syndrome and type 2 diabetes mellitus. Human ortholog(s) of this gene implicated in migraine and osteoporosis. Orthologous to human CALCA (calcitonin related polypeptide alpha).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 17.1 kDa; Accurate Molecular Mass: 19 kDa
Purity	> 95%
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	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO ₃ , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Calca calcitonin-related polypeptide alpha [Rattus norvegicus (Norway rat)]
Official Symbol	Calca
Synonyms	CALCA; calcitonin-related polypeptide alpha; CALC1, calcitonin 1; calcitonin; calcitonin gene-related peptide 1; calcitonin; katacalcin; calcitonin 1; alpha-type CGRP; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha; CT; KC; CGRP; CALC1; CGRP1; CGRP-I; MGC126648;
Gene ID	24241
mRNA Refseq	NM_017338
Protein Refseq	NP_059034

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UniProt ID

P01257

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