

Recombinant Rat Endonuclease G

Cat. No. Endog-623R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Endonuclease G is produced in E. coli.
Species	Rat
Source	E.coli
Description	Endonuclease G, mitochondrial is an enzyme that in humans is encoded by the ENDOG gene. The protein encoded by this gene 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.
Purity	≥90% (SDS-PAGE).
Concentration	0.4mg/ml.
Formulation	Liquid. In 50mM TRIS-HCl, pH 8.0, containing 500mM sodium chloride, 0.05% Tween 20, 5mM β-mercaptoethanol, 500mM imidazole and 20% glycerol.
Application	For studying DNAS1L3 catalyzed oligonucleosomal DNA fragmentation.
Storage And Stability	-80°C. Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.

GENE INFORMATION

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Gene Name	Endog endonuclease G [Rattus norvegicus]
Synonyms	Endog; endonuclease G
Gene ID	362100
mRNA Refseq	NM_001034938
Protein Refseq	NP_001030110
UniProt ID	Q3V5X8
Chromosome Location	3p12
Pathway	Apoptosis
Function	endonuclease activity; hydrolase activity; metal ion binding; nucleic acid binding

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