

# Mitochondrial deoxyribonucleoside salvage enzymes - cloning and characterization of deoxyguanosine kinase and thymidine kinase

Sveriges Lantbruksuniversitet - Deoxyribonucleoside kinases in mitochondrial DNA depletion



Description: -

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Catechisms, English -- Early works to 1800.  
Deoxyribonucleases.  
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Notes: Series of papers combined to form a doctoral thesis for the Swedish University of Agricultural Sciences, Uppsala.  
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## Feeding the deoxyribonucleoside salvage pathway to rescue mitochondrial DNA

Furthermore, TS activity is a prerequisite for the de novo synthesis of dTMP. That mitochondrial salvage has only a back-up role in supporting mtDNA replication is one explanation why DGUOK and TK2 deficiency phenotypes are tissue-restricted and not systemic. A transport activity with preference for dCTP has also been observed.

## Mitochondrial deoxyribonucleotide pools in deoxyguanosine kinase deficiency

Floyd S, Favre C, Lasorsa FM, Leahy M, Trigianti G, et al. We searched the literature , , , , , , , , , and databases and gathered the available data on the reaction kinetics of enzymes of mitochondrial nucleotide salvage.

## Dictyostelium discoideum Salvages Purine Deoxyribonucleosides by Highly Specific Bacterial

The rats were sacrificed by using a mixture of medicine air and successive increase of carbon dioxide in the cage.

## Basic biochemical characterization of cytosolic enzymes in thymidine nucleotide synthesis in adult rat tissues: implications for tissue specific mitochondrial DNA depletion and deoxynucleoside

Mitochondrial thymidine kinase 2 but not deoxyguanosine kinase is up-regulated during stationary growth phase of the cultured cells. Our results make it possible to comment on why this must be so, due to the kinetic properties of the enzymes of mitochondrial salvage.

## WHITE STRIPE LEAF8 , encoding a deoxyribonucleoside kinase, is involved in chloroplast development in rice

Time after serum withdraw is indicated in days d. Nishino I, Spinazzola A, Hirano M 1999 Thymidine phosphorylase gene mutations in MNGIE, a

human mitochondrial disorder. Each value on the X-axis is the sum of molecules supplied of all four species.

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