



# SZABO SCANDIC

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## Produktinformation



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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CTSK Pre-design Chimera RNAi

Catalog # : H00001513-R01

規格 : [ 10 nmol ] [ 20 nmol ]

List All

### Specification

**Product Description:** Homo sapiens cathepsin K (pyncnodysostosis) (CTSK), mRNA.

**Reactivity:** Human

**Supplied Product:** DEPC water

**Target Refseq:** NM\_000396

**Storage Instruction:** Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

**Note:** Position of the Chimera RNAi.



### Application Image

RNAi Knockdown

### Publication Reference

- [dsCheck: highly sensitive off-target search software for double-stranded RNA-mediated RNA interference.](#)  
Naito Y, Yamada T, Matsumiya T, Ui-Tei K, Saigo K, Morishita S. *Nucleic Acids Res.* 2005 Jul 1;33(Web Server issue):W589-91.
- [Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect.](#)  
Ui-Tei K, Naito Y, Zenno S, Nishi K, Yamato K, Takahashi F, Juni A, Saigo K. *Nucleic Acids Res.* 2008 Apr;36(7):2136-51. Epub 2008 Feb 11.
- [Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference.](#)  
Ui-Tei K, Naito Y, Takahashi F, Haraguchi T, Ohki-Hamazaki H, Juni A, Ueda R, Saigo K. *Nucleic Acids Res.* 2004 Feb 9;32(3):936-48. Print 2004.
- [siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference.](#)  
Naito Y, Yamada T, Ui-Tei K, Morishita S, Saigo K. *Nucleic Acids Res.* 2004 Jul 1;32(Web Server issue):W124-9.

### Applications

RNAi Knockdown

### Gene Information

**Entrez GeneID:** [1513](#)

**Gene Name:** CTSK

**Gene Alias:** CTS02,CTSO,CTSO1,CTSO2,MGC23107,PKND,PYCD

**Gene** cathepsin K

**Description:**

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**Omim ID:** [265800](#), [601105](#)

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**Gene Ontology:** [Hyperlink](#)

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**Gene Summary:** The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. This gene may be subject to RNA editing. [provided by RefSeq]

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**Other Designations:** OTTHUMP00000032938,cathepsin O1,cathepsin O2,cathepsin X

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**Gene Pathway**

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[Lysosome](#)

**Related Disease**

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[Alzheimer Disease](#) [Alzheimer disease](#) [Body Weight](#) [Cardiovascular Diseases](#)  
[Diabetes Complications](#) [Diabetes Mellitus, Type 2](#) [Edema](#)  
[Genetic Predisposition to Disease](#) [Metabolic Syndrome X](#) [Neoplasms](#) [Osteoporosis](#)  
[Ovarian Neoplasms](#)

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