



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## CBS Validated Chimera RNAi

Catalog # : H00000875-R01V

規格 : [ 10 nmol ] [ 20 nmol ]

List All

### Specification

**Product Description:** Homo sapiens cystathionine-beta-synthase (CBS), mRNA.

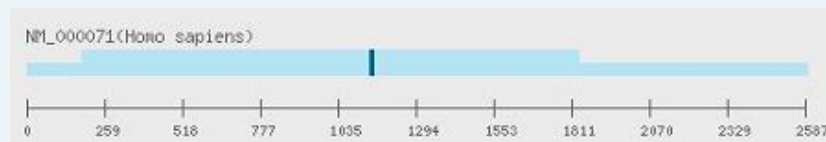
**Reactivity:** Human

**Supplied Product:** DEPC water

**Target Refseq:** NM\_000071

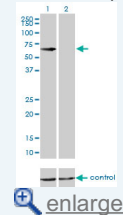
**Storage Instruction:** Store at -20°C, do not exceed 4 - 5 freeze-thaw cycles to ensure product integrity.

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



### Application Image

RNAi Knockdown (Antibody validated)

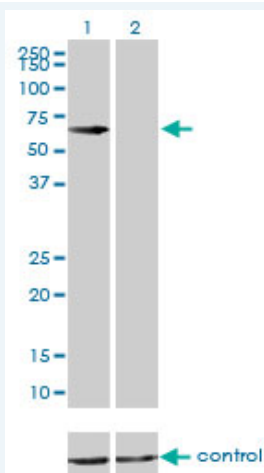


### Publication Reference

- 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 (Antibody validated)



Western blot analysis of CBS over-expressed 293 cell line, cotransfected with CBS Validated Chimera RNAi ( Cat # H00000875-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with CBS monoclonal antibody (M01), clone 3E1 (Cat # H00000875-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.

 [Protocol Download](#)

## Gene Information

**Entrez GeneID:** [875](#)

**Gene Name:** CBS

**Gene Alias:** HIP4

**Gene Description:** cystathionine-beta-synthase

**Omim ID:** [236200](#)

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

**Gene Summary:** The protein encoded by this gene acts as a homotetramer to catalyze the conversion of homocysteine to cystathionine, the first step in the transsulfuration pathway. The encoded protein is allosterically activated by adenosyl-methionine and uses pyridoxal phosphate as a cofactor. Defects in this gene can cause cystathionine beta-synthase deficiency (CBS), which can lead to homocystinuria. [provided by RefSeq]

**Other Designations:** OTTHUMP00000109416,OTTHUMP00000109418,beta-thionase,cystathionine beta-synthase,methylcysteine synthase,serine sulfhydrase

## Gene Pathway

[Cysteine and methionine metabolism](#) [Glycine, serine and threonine metabolism](#)  
[Metabolic pathways](#) [Selenoamino acid metabolism](#)

## Related Disease

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