



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Datasheet

### CTH (Human) Recombinant Protein (P01)

**Catalog Number:** H00001491-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human CTH full-length ORF (AAH15807, 1 a.a. - 405 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MQEKDASSQGFLPHFQHFATQAIHVGQDPEQWTSRA  
VVPPISTTFKQGAPGQHSGFEYSRSGNPNTRNCLEK  
AVAALDGAKYCLAFASGLAATVTITHLLKAGDQIICMDD  
VYGGTNRYFRQVASEFGLKISFVDCSKIKLLEAAITPET  
KLVWIETPTNPTQKVIDIEGCAHIVHKHGDILVVDNTFM  
SPYFQRPLALGADISMYSATKYMNGRSDVVMGLVSVN  
CESLHNRLRFLQNSLGAVPSPIDCYLCNRGLKTLHVR  
MEKHFKNGMAVAQFLESNPWVEKVIYPGLPSHPQHEL  
VKRQCTGCTGMVTFYIKGTLQHAEIFLKNLKLFTLAESL  
GGFESLAELPAIMTHASVLKNDRDVLGISDTLIRLSVGL  
EDEEDLLEDLDQALKAHPPSGSHS

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 70.07

**Applications:** AP, Array, ELISA, WB-Re  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at  
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 1491

**Gene Symbol:** CTH

**Gene Alias:** MGC9471

**Gene Summary:** This gene encodes a cytoplasmic enzyme in the trans-sulfuration pathway that converts cystathione derived from methionine into cysteine. Glutathione synthesis in the liver is dependent upon the availability of cysteine. Mutations in this gene cause cystathioninuria. Alternative splicing of this gene results in two transcript variants encoding different isoforms. [provided by RefSeq]

**References:**

1. Endogenously produced hydrogen sulfide is involved in porcine oocyte maturation in vitro. Nevorál J, Zalmanová T, Zamostná K, Kott T, Kucerová-Chrpová V, Bodart JF, Gelaude A, Procházka R, Orsák M, Sulc M, Klein P, Dvoráková M, Weingartová I, Vighová A, Hosková K, Krejčová T, Jilek F, Petr J. Nitric Oxide. 2015 Oct 9;51:24-35.
2. The Effect of Hydrogen Sulfide Donors on Lipopolysaccharide-Induced Formation of Inflammatory Mediators in Macrophages. Whiteman M, Li L, Rose P, Tan CH, Parkinson DB, Moore PK. Antioxid Redox Signal. 2010 Feb 3. [Epub ahead of print]
3. Hydrogen sulfide induces DNA damage and changes in apoptotic gene expression in human lung fibroblast cells. Baskar R, Li L, Moore PK. FASEB J. 2007 Jan;21(1):247-55. Epub 2006 Nov 20.