

Datasheet for ABIN7321065  
**CTHRC1 Protein (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	100 µg
Target:	CTHRC1
Origin:	Rat
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTHRC1 protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Rat CTHRC1 Protein (His Tag)
Sequence:	Met1-Lys230
Characteristics:	A DNA sequence encoding the rat Cthrc1 (NP_001258229.1) (Met1-Lys230) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg protein as determined by the LAL method.

## Target Details

Target:	CTHRC1
Alternative Name:	CTHRC1 ( <a href="#">CTHRC1 Products</a> )
Background:	Background: Collagen triple helix repeat-containing protein 1, also known as Protein NMTC1, and CTHRC1, is a secreted protein that is glycosylated and highly conserved from lower chordates to mammals. CTHRC1 expression was not detectable in normal arteries. However, it

## Target Details

is transiently expressed in the arterial wall in response to injury where it may contribute to vascular remodeling by limiting collagen matrix deposition and promoting cell migration. A short collagen motif with 12 Gly-X-Y repeats appears to be responsible for trimerization of the CTHRC1 protein and this renders the molecule susceptible to cleavage by collagenase. CTHRC1 overexpression caused a dramatic reduction in collagen type I mRNA and protein levels. Currently available data indicate that Cthrc1 expression in vascular cells regulates transforming growth factor beta responsiveness, thereby impacting transforming growth factor beta target genes, including collagens. Additionally, CTHRC1 increases bone mass as a positive regulator of osteoblastic bone formation and offers an anabolic approach for the treatment of osteoporosis.

Synonym: CTHRC1

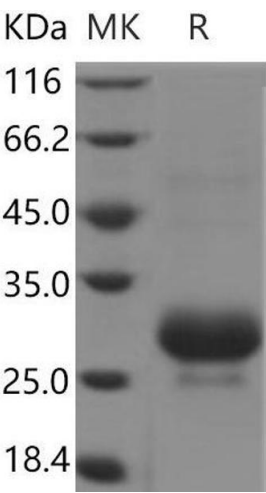
Molecular Weight:	22.8 kDa
NCBI Accession:	<a href="#">NP_001258229</a>
Pathways:	<a href="#">Tube Formation</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.