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Datasheet for ABIN7559861

**Nitrilase 1 Protein (NIT1) (AA 1-323) (His tag)**

## Overview

Quantity:	1 mg
Target:	Nitrilase 1 (NIT1)
Protein Characteristics:	AA 1-323
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Nitrilase 1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Nit1 Protein expressed in mammalien cells.
Sequence:	MLGFITRPPH QLLCTGYRLL RTPVLCTQPR PRTMSSSTSW ELPLVAVCQV TSTPNKQENF KTCAELVQEA ARLGACLAFL PEAFDFIARN PAETLLLSEP LNGDLLGQYS QLARECGIWL SLGGFHERGQ DWEQNQKIYN CHVLLNSKGS VVASYRKTHL CDVEIPGQGP MRESNYTKPG GTLEPPVKTP AGKVGLAICY DMRFPESLKL LAQAGAEILT YPSAFGSVTG PAHWEVLLRA RAIESQCYVI AAAQCGRHHE TRASYGHSMV VDPWGTVVAR CSEGPLCLA RIDLHFLQQM RQHLPVFQHR RPDLYGSLGH PLS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li></ul>

## Product Details

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- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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## Target Details

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Target:	Nitrilase 1 (NIT1)
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Alternative Name:	Nit1 ( <a href="#">NIT1 Products</a> )
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Background:	Deaminated glutathione amidase (dGSH amidase) (EC 3.5.1.128) (Nitrilase homolog 1),FUNCTION: Catalyzes the hydrolysis of the amide bond in N-(4-oxoglutarate)-L-cysteinylglycine (deaminated glutathione), a metabolite repair reaction to dispose of the harmful deaminated glutathione. Possesses amidase activity toward deaminated ophthalmate in vitro (PubMed:28373563). Plays a role in cell growth and apoptosis: loss of expression promotes cell growth, resistance to DNA damage stress and increased incidence to NMBA-induced tumors. Has tumor suppressor properties that enhances the apoptotic responsiveness in cancer cells, this effect is additive to the tumor suppressor activity of FHIT. It is also a negative regulator of primary T-cells. {ECO:0000269 PubMed:16864578, ECO:0000269 PubMed:19395373, ECO:0000269 PubMed:19479888, ECO:0000269 PubMed:19595734, ECO:0000269 PubMed:19596042, ECO:0000269 PubMed:28373563}.
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Molecular Weight:	35.7 kDa
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UniProt:	<a href="#">Q8VDK1</a>
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## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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