

Datasheet for ABIN7547996  
**GLYR1 Protein (AA 1-553) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	GLYR1
Protein Characteristics:	AA 1-553
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GLYR1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GLYR1 Protein expressed in mammalian cells.
Sequence:	MAAVSLRLGD LVWGKLG RYP PWP GKIVNPP KDLKKPRGKK CFFVKFFGTE DHAWIKVEQL KPYHAHKEEM IKINKGKRFQ QAVDAVEEFL RRAKGDQTS SHNSSDDKNR RNSSEERSRP NSGDEKRKLS LSEGKVKKNM GEGKKRVSSG SSERGSKSPL KRAQEQSPRK RGRPPKDEKD LTIPESSTVK GMMAGPMAAF KWQPTASEPV KDADPHFHFF LLSQTEKPAV CYQAITKKLK ICEEETGSTS IQAADSTAVN GSITPTDKKI GFLGLGLMGS GIVSNLLKMG HTVTVWNRTA EKCDLFIQEG ARLGRTPAEV VSTCDITFAC VSDPKAAKDL VLGP SGVLQG IRPGKCYVDM STVDADTVTE LAQVIVSRGG RFLEAPVSGN QQLSNDGMLV ILAAGDRGLY EDCSSCFQAM GKTSFFLGEV GNAAKMMLIV NMVQGSFMAT IA EGLTLAQV TGQSQQTLLD ILNQGQLASI FLDQKCQNIL QGNFKPDFYL KYIQKDLRLA IALGDAVNHP TPMAAAAANEV YKRAKALDQS DNDMSAVYRA YIH <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>

## Product Details

---

**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

---

**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- 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.

---

**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

---

**Grade:** custom-made

---

## Target Details

---

**Target:** GLYR1

---

**Alternative Name:** GLYR1 ([GLYR1 Products](#))

---

**Background:** Cytokine-like nuclear factor N-PAC (NPAC) (3-hydroxyisobutyrate dehydrogenase-like protein) (Glyoxylate reductase 1 homolog) (Nuclear protein NP60) (Nuclear protein of 60 kDa) (Nucleosome-destabilizing factor) (hNDF) (Putative oxidoreductase GLYR1),FUNCTION: Cytokine-like nuclear factor with chromatin gene reader activity involved in chromatin modification and regulation of gene expression (PubMed:23260659, PubMed:30970244). Acts as a nucleosome-destabilizing factor that is recruited to genes during transcriptional activation (PubMed:30970244, PubMed:29759984). Recognizes and binds histone H3 without a preference for specific epigenetic markers and also binds DNA (PubMed:20850016, PubMed:30970244). Interacts with KDM1B and promotes its histone demethylase activity by facilitating the capture of H3 tails, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes

---

## Target Details

---

(PubMed:23260659, PubMed:30970244, PubMed:29759984). Stimulates the acetylation of 'Lys-56' of nucleosomal histone H3 (H3K56ac) by EP300 (PubMed:29759984). With GATA4, co-binds a defined set of heart development genes and coregulates their expression during cardiomyocyte differentiation (PubMed:35182466). Regulates p38 MAP kinase activity by mediating stress activation of MAPK14/p38alpha and specifically regulating MAPK14 signaling (PubMed:16352664). Indirectly promotes phosphorylation of MAPK14 and activation of ATF2 (PubMed:16352664). The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6 (PubMed:16352664). {ECO:0000269|PubMed:16352664, ECO:0000269|PubMed:20850016, ECO:0000269|PubMed:23260659, ECO:0000269|PubMed:29759984, ECO:0000269|PubMed:30970244, ECO:0000269|PubMed:35182466}.

---

Molecular Weight: 60.5 kDa

UniProt: [Q49A26](#)

## Application Details

---

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

---

Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months