

Datasheet for ABIN7554005
GATA4 Protein (AA 1-442) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GATA4
Protein Characteristics:	AA 1-442
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GATA4 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat GATA4 Protein expressed in mammalian cells.
Sequence:	MYQSLAMAAN HGPPPGAYEA GGPGAFMHGA GAASSPVYVP TPRVPSSVLG LSYLQGGGAG SASGGASGGS SGGAAAGAGP GTQQGSPGWS QAGADGAAAYT PPPVSPRFSF PGTTGSLAAA AAAAAAREAA AYSSGGGAAG AGLAGREQYG RAGFAGSYSS PYPAYMADVG ASWAAAAAAS AGPFDSPVLH SLPGRANPAA RHPNLDMFDD FSEGRECVNC GAMSTPLWRR DGTGHYLCNA CGLYHKMNGI NRPLIKPQRR LSASRRVGLS CANCQTTTTT LWRRNAEGEP VCNACGLYMK LHGVPRPLAM RKEGIQTRKR KPKNLNLSKT PAAPSGSESL PPASGASSNS SNATTSSSEE MRPIKTEPGL SSHYGHSSSV SQTFSVSAMS GHGPSIHPVL SALKLSPQGY ASPVSQSPQT SSKQDSWNSL VLADSHGDII TA 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.

Characteristics:	Key Benefits:
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Product Details

- 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, Western Blot

Grade: custom-made

Target Details

Target: GATA4

Alternative Name: GATA4 ([GATA4 Products](#))

Background: Transcription factor GATA-4 (GATA-binding factor 4),FUNCTION: Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development and function (PubMed:24000169, PubMed:27984724, PubMed:35182466). In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it down-regulates endocardial and endothelial gene expression (PubMed:27984724). Involved in bone morphogenetic protein (BMP)-mediated induction of cardiac-specific gene expression. Binds to BMP response element (BMPRE) DNA sequences within cardiac activating regions (By similarity). Acts as a transcriptional activator of ANF in cooperation with NKX2-5 (By similarity). Promotes cardiac myocyte enlargement (PubMed:20081228). Required during testicular development (PubMed:21220346). May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase (PubMed:15734735). {ECO:0000250|UniProtKB:P46152, ECO:0000250|UniProtKB:Q08369, ECO:0000269|PubMed:15734735, ECO:0000269|PubMed:20081228, ECO:0000269|PubMed:21220346, ECO:0000269|PubMed:24000169,

Target Details

ECO:0000269|PubMed:27984724, ECO:0000269|PubMed:35182466}.

Molecular Weight: 44.6 kDa

UniProt: [P43694](#)

Pathways: [Peptide Hormone Metabolism](#), [Carbohydrate Homeostasis](#)

Application Details

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.

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
