

Recombinant Mouse GATA4 Protein (1-441 aa), His-Myc-tagged

Cat. No. GATA4-2441M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse GATA4 Protein (1-441 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Cancer. Protein Description: Full Length.
Species	Mouse
Source	E.coli
ProteinLength	1-441 aa
Description	Transcriptional activator that binds to the consensus sequence 5'-AGATAG-3' and plays a key role in cardiac development. In cooperation with TBX5, it binds to cardiac super-enhancers and promotes cardiomyocyte gene expression, while it downregulates endocardial and endothelial gene expression. 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. Acts as a transcriptional activator of ANF in cooperation with NKX2-5. Promotes cardiac myocyte enlargement. Required during testicular development. May play a role in sphingolipid signaling by regulating the expression of sphingosine-1-phosphate degrading enzyme, sphingosine-1-phosphate lyase
Form	Tris-based buffer, 50% glycerol
Molecular Mass	49.6 kDa

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AA Sequence	MYQSLAMAANHGPPPGAYEAGGPGAFMHSAGAASSPVYVPTPRVPSSVLGLSYLQ GGGSAAAAGTTSGGSSGAGPSGAGPGTQQGSPGWSQAGAEGAAYTPPVSPRF SFPGTTGSLAAAAAAAAAREAAAYGSGGGAAGAGLAGREQYGRPGFAGSYSSPYP AYMADV GASWAAAAAASAGPFDSPVLHSLPGRANPGRHPNLD MFDDFSEGRECV NCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSCAN CQTTTTTLWRRNAEGEPVCNACGLYMKLHGVP RPLAMRKEGIQTRKRKPKNLNKS KTPAGPAGETLPPSSGASSGNSSNATSSSSSSEEMRPIKTEPGLSSHYGHSSSMSQ TFSTVSGHGPSIHPVLSALKLSPQGYASPVTQTSQASSKQDSWNSLVLADSHGDIIT A
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.
GENE INFORMATION	
Gene Name	Gata4 GATA binding protein 4 [Mus musculus]
Official Symbol	GATA4
Synonyms	GATA4; GATA binding protein 4; transcription factor GATA-4; GATA-binding factor 4; GATA-binding protein 4; Gata-4;

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Gene ID	14463
mRNA Refseq	NM_008092
Protein Refseq	NP_032118
UniProt ID	Q08369

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