



# Recombinant Mouse Transcription factor GATA-4 (GATA4)

<b>Product Code</b>	CSB-EP009277MO
<b>Relevance</b>	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
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q08369
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MYQSLAMAANHGPPPGAYEAGGPGAFMHSAGAASSPVYVPTPRVPSSVLGL SYLQGGGSAAAAGTTSGGSSGAGPSGAGPGTQQGSPGWSQAGAEGAAAYTP PPVSPRFSFPGTTGSLAAAAAAAAAREAAAYGSGGAAGAGLAGREQYGRP GFAGSYSSPYPAYMADV GASWAAAAASAGPFDSPVLHSLPGRANPGRHPN LDMFDDFSEGRECVNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIK PQRRLSASRRVGLSCANCQTTTTTLWRRNAEGEPVCNACGLYMKLHGVRP LAMRKEGIQTRKRKPKNLNKSCTPAGPAGETLPPSSGASSGNSSNATSSSSS SEEMRPIKTEPGLSSHYGHSSSMSQTFSTVSGHGPSIHPVLSALKLSPQGYAS PVTQTSQASSKQDSWNSLVLADSHGDIITA
<b>Research Area</b>	Cancer
<b>Source</b>	E.coli
<b>Target Names</b>	Gata4
<b>Protein Names</b>	GATA-binding factor 4 Gata-4
<b>Expression Region</b>	1-441aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 10xHis-tagged and C-terminal Myc-tagged



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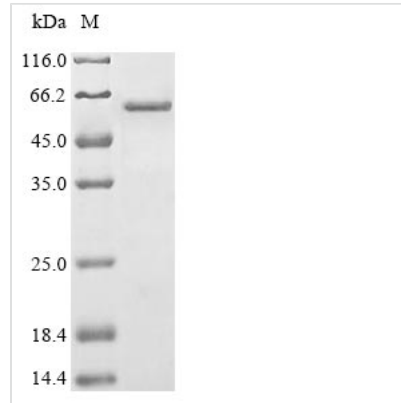
**Mol. Weight** 49.6 kDa

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**Protein Length** Full Length

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**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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