



Recombinant Mouse Transcription factor GATA-4 (GATA4)

Product Code	CSB-EP009277MO
Relevance	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
Abbreviation	Recombinant Mouse GATA4 protein
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q08369
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	MYQSLAMAANHGP PP GAYEAGGPGAFMHSAGAASSPVYVPTPRVPSSVLGL SYLQGGGSAAAAGTTSGGSSGAGPSGAGPGTQQGSPGWSQAGAEGAAAYTP PPVSPRFSFPGTTGSLAAAAAAAAAREAAAYGSGGGAAGAGLAGREQYGRP GFAGSYSSPYPAYMADVGASWAAAAAASAGPFDSPVLHSLPGRANPGRHPN LDMFDDFSEGRECVNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIK PQRRLSASRRVGLSCANCQTTTTTLWRRNAEGEPVCNACGLYMKLHGVP RP LAMRKEGIQTRKRKPKNLNKS KTPAGPAGETLPPSSGASSGNSSNATSSSSS SEEMRPIKTEPGLSSHYGHSSSMSQTFSTVSGHGPSIHPVLSALKLSPQGYAS PVTQTSQASSKQDSWNSLVLADSHGDIITA
Research Area	Cancer
Source	E.coli
Target Names	Gata4
Protein Names	GATA-binding factor 4 Gata-4
Expression Region	1-441aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

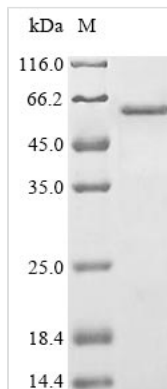


Tag Info N-terminal 10xHis-tagged and C-terminal Myc-tagged

Mol. Weight 49.6 kDa

Protein Length Full Length

Image



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

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.

Shelf Life 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.