

Active Recombinant Full Length Human GATA4 Protein, C-Flag-tagged

Cat. No. GATA4-501HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GATA4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the GATA family of zinc-finger transcription factors. Members of this family recognize the GATA motif which is present in the promoters of many genes. This protein is thought to regulate genes involved in embryogenesis and in myocardial differentiation and function, and is necessary for normal testicular development. Mutations in this gene have been associated with cardiac septal defects. Additionally, alterations in gene expression have been associated with several cancer types. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	GATA4 Activity Verified in a DNA-binding Assay: Comparison of GATA4 binding to consensus and mutant oligos shows sensitivity of protein binding to the DNA sequence used.
Molecular Mass	44.4 kDa
AA Sequence	MYQSLAMAANHGPPPGAYEAGGPGAFMHGAGAASSPVYVPTPRVPSSVLGLSYLQ

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GGGAGSASGGASGGS SGG AASGAGPGTQQGSPGWSQAGADGAAYTPPPVSPR
 FSFPGTTGSLAAAAAAAAAREAAAYSSGGGAAG AGLAGREQYGRAGFAGSYSSPY
 PAYMADV GASWAAAAAASAGPFDSPVLHSLPGRANPAARHPNLDMFDD FSEGRE
 CVNCGAMSTPLWRRDGTGHYLCNACGLYHKMNGINRPLIKPQRRLSASRRVGLSC
 ANCQTTTTT LWRRNAEGEPVCNACGLYMKLHGVPRPLAMRKEGIQTRKRKPKNLN
 KSKTPAAPSGSESLPPASGASSNS SNATTSSSEEMRPIKTEPGLSSHYGHSSSVSQ
 TFSVSAMSGHGPSIHPVLSALKLSPQGYASPVSPQSPQT
 SSKQDSWNSLVLADSHGDIITATRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Full Length	Full L.

GENE INFORMATION

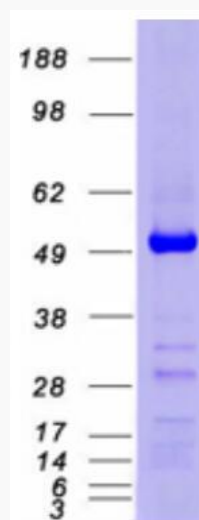
Gene Name	GATA4 GATA binding protein 4 [Homo sapiens (human)]
Official Symbol	GATA4

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Synonyms	TOF; ASD2; VSD1; TACHD
Gene ID	2626
mRNA Refseq	NM_002052.5
Protein Refseq	NP_002043.2
MIM	600576
UniProt ID	P43694



Coomassie blue staining of purified GATA4 protein.