

Active Recombinant Full Length Human GATA3 Protein, C-Flag-tagged

Cat. No. GATA3-1052HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GATA3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a protein which belongs to the GATA family of transcription factors. The protein contains two GATA-type zinc fingers and is an important regulator of T-cell development and plays an important role in endothelial cell biology. Defects in this gene are the cause of hypoparathyroidism with sensorineural deafness and renal dysplasia.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	GATA3 Activity Verified in a DNA-binding Assay: DNA binding activity of GATA3 as a function of protein concentration. Sensitivity to competitor oligonucleotide demonstrates specificity of protein-DNA binding. EMSA assay
Molecular Mass	47.7 kDa
AA Sequence	MEVTADQPRWVSHHHPAVLNGQHPDTHHPGLSHSYMDAAQYPLPEEVDVLFNIDG QGNHVPPYYGNSVRA TVQRYPPTHHGSQVCRPPLLHGSLPWLDGGKALGSHHTA

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SPWNLSPFSKTSIHGSPGPLSVYPPASSSS LSGGHASPHLFTFPPTPPKDVSPDP
 SLSTPGSAGSARQDEKECLKYQVPLPDSMKLESSHSRGSMTALGG ASSSTHHPITT
 YPPYVPEYSSGLFPPSSLLGGSPGTGFGCKSRPKARSSTEGRECVNCGATSTPLWR
 RDGT GHYLCNACGLYHKMNGQNRPLIKPKRRLSAARRAGTSCANCQTTTTTLWRR
 NANGDPVCNACGLYYKLHN INRPLTMKKEGIQTRNRKMSSKSKKCKKVHDSLEDFF
 KNSSFNPAALSRHMSSLSHISPFSSHMLTTP
 TPMHPPSSLSFGPHHPSSMVTAMGTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 Pathways	Adult stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors
Full Length	Full L.

GENE INFORMATION

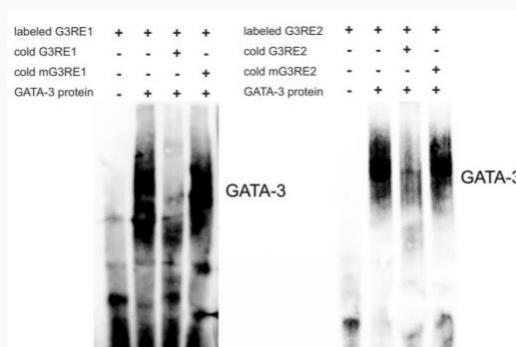
Gene Name	GATA3 GATA binding protein 3 [Homo sapiens (human)]
Official Symbol	GATA3

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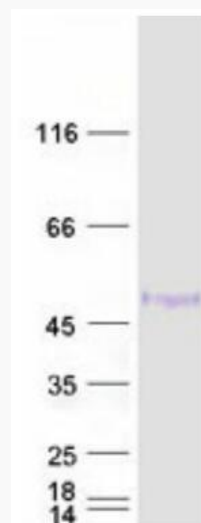
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Synonyms	HDR; HDRS
Gene ID	2625
mRNA Refseq	NM_002051.3
Protein Refseq	NP_002042.1
MIM	131320
UniProt ID	P23771



Recombinant GATA-3 bound to the labeled G3RE1 and G3RE2 oligonucleotide probes in gel shift assays. This interaction was blocked by a mutant (m) G3RE1 or G3RE2 probe or excess non-labeled (cold) G3RE1 or G3RE2 probe.



Coomassie blue staining of purified GATA3 protein.

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