Basic Leucine Zipper Transcriptional Factor ATF-Like (BATF) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Basic leucine zipper transcriptional factor ATF-like (Batf), Recombinant Protein
Full Product Name	Recombinant Mouse Basic leucine zipper transcriptional factor ATF-like (Batf)
Product Gene Name	Batf recombinant protein
Sequence	MPHSSDSSDS SFSRSPPPGK QDSSDDVRKV QRREKNRIAA QKSRQRQTQK ADTLHLESED LEKQNAALRK EIKQLTEELK YFTSVLSSHE PLCSVLASGT PSPPEVVYSA HAFHQPHISS PRFQP
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	14,065 Da
Sequence Positions	1-125aa; Full Length Protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O35284
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Batf recombinant protein	This protein is a nuclear basic leucine zipper protein that belongs to the AP-1 ATF superfamily of transcription factors. The leucine zipper of this protein mediates dimerization with members of the Jun family of proteins. This protein is thought to be a negative regulator of AP-1 ATF transcriptional events.
Other Notes	Small volumes of Batf recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Batf purchase	MBS1165634 is a recombinant protein targeting Batf. Also known as Recombinant Mouse Basic leucine zipper transcriptional factor ATF-like (Batf). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Batf. It may not necessarily be applicable to this product.

NCBI GI #	7949007
NCBI GeneID	53314
NCBI Accession #	NP_058047.1
UniProt Primary Accession #	O35284
UniProt Secondary Accession #	A2RT86

UniProt Related Accession #	O35284
GenBank Nucleotide #	NM_016767.2
NCBI Official Full Name	basic leucine zipper transcriptional factor ATF-like
NCBI Official Synonym Full Names	basic leucine zipper transcription factor, ATF-like
NCBI Official Symbol	Batf
NCBI Official Synonym Symbols	B-ATF; SFA-2
UniProt Protein Name	Basic leucine zipper transcriptional factor ATF-like
UniProt Synonym Protein Names	B-cell-activating transcription factor; B-ATF
Protein Family	Basic leucine zipper transcriptional factor
UniProt Gene Name	Batf
UniProt Synonym Gene Names	B-ATF
NCBI Protein Information	basic leucine zipper transcriptional factor ATF-like
UniProt Comments for Batf	AP-1 family transcription factor that controls the differentiation of lineage-specific cells in the immune system: specifically mediates the differentiation of T-helper 17 cells (Th17), follicular T-helper cells (TfH), CD8+ dendritic cells and class-switch recombination (CSR) in B-cells. Acts via the formation of a heterodimer with JUNB that recognizes and binds DNA sequence 5'-TGA[CG]TCA-3'. The BATF-JUNB heterodimer also forms a complex with IRF4 (or IRF8) in immune cells, leading to recognition of AICE sequence (5'-TGAnTCA/GAAA-3'), an immune-specific regulatory element, followed by cooperative binding of BATF and IRF4 (or IRF8) and activation of genes. Controls differentiation of T-helper cells producing interleukin-17 (Th17 cells) by binding to Th17-associated gene promoters: regulates expression of the transcription factor RORC itself and RORC target genes such as IL17 (IL17A or IL17B). Also involved in differentiation of follicular T-helper cells (TfH) by directing expression of BCL6 and MAF. In B-cells, involved in class-switch recombination (CSR) by controlling the expression of both AICDA and of germline transcripts of the intervening heavy-chain region and constant heavy-chain region (I(H)-C(H)). Following infection, can participate in CD8+ dendritic cell differentiation via interaction with IRF4 and IRF8 to mediate cooperative gene activation. Regulates effector CD8+ T-cell differentiation by regulating expression of SIRT1. Following DNA damage, part of a differentiation checkpoint that limits self-renewal of hematopoietic stem cells (HSCs): up-regulated by STAT3, leading to differentiation of HSCs, thereby restricting self-renewal of HSCs.
Research Articles on Batf	**1.** BATF plays a key role in the differentiation of T helper cell subsets and Ig class-switching. Apart from that we suggest an important function in mast cell development and in murine models of allergic asthma, it was observed that mice deficient for Batf are protected from the disease. Hence, the previous findings on BATF make it an interesting target for the treatment of Th cell-derived-cytokine-driven diseases.
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