

Recombinant Mouse ZEP3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51104

Size: 10ug, 100ug

Protein Name: Transcription factor HIVP3 (Human immunodeficiency virus type I enhancer-binding protein 3 homolog) (KB-binding and recognition component) (Kappa-B and V(D)J recombination signal sequences-binding protein) (Kappa-binding protein 1) (KBP-1) (Recombinant component) (Schnurri-3) (Zinc finger protein ZAS3)

Synonym: Hivep3, KBP1, Kiaa1555, Krc, Rc, shn3, Zas3

UniProt ID: A2A884

UniProt Link: www.uniprot.org/uniprotkb/A2A884/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 2348 AA

Molecular Weight: 253 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDPDQSIKGTKKADGSPRKRLTKGEAIQTSVSSSAPYPGSGTTAPSESATQELLATQPFSGPSQEKT
GQQQKPARRPSIEASVHISQLPQHPLTPAFMSPGKPEHLLEGSTWQLVDPMRPGPSGSFVAPGLHP
QSLLPSHASILPPEELPGIPKVFVPRPSQVSLKPAEEAHKKERKPQKPGKYICQYCSRPCAKPSVLQ
KHRSHTGERPYPCGPCGFSFKTKSNLYKHKRSHAHRIKAGLASGSSSEMYPPGLEMERIPGEEFEE
PTEGESTDSEEETGAASGPSTDVLPKPKHPLLSSSLYSSGSHGSSQERCSSLQSSTGPSLEDPAF
AEASSEHPLSHKPEDTHTIKQKLALRLSERKKLIEEQTFLSPGSKGSTESGYFSRSESAEQQVSPNT
NAKSYAEIIFGKCGRIGQRTSMLASTSTQPLLPLSSEDKPSLVPLSVPRQTQVIEHITKLITINEAVVDTSE
IDSVKPRRSSLTRSSVESPKSSLYRDSLSSHGEKTKQEQLLSLQHPPSSTHPVLLRSHSMPSAA
CTISTHHHTFRGSYSFDDHVADPEVPSRNTPVFTSHPRMLKRQPAIELPLGGEYSSEEPGPSSKDPT
SKPSDEPEPKESDLTKKTKKGFKTKGANYECTICGARYKKRDNYEAHKKYCSELQITKAHSGAHE
VEKTQAEPEPWSQMMHYKLGATLELTPLRKRKEKSLGDEEPPAFGSPGPSETAHNRPLGSTKS
PAEASKSAPSLEGPTSFPQRTPKPGAGSEPGKERRTMSKEISVIQHTSSFEKSDPPEQPSGLEEDKP
PAQFSSPPPAPHGRSAHSLQPRQPNQVPEILVTEEPDRPDTEPEPPPKEPEKTEEFQWPQRS
QTLAQLPAEKLPPKKRLRLAEMAQSSGESSFESSVPLSRSPSQESSISLSGSSRSASFREDHGKA
EAPGPFSDTRSKTLGSHMLTVPSHHPHAREMRRSASEQSPNVPHSSHMTETRSKSFQDYGSLSPTG
PSLAVPAAPPPAAPPERRKCFLVRQASLNRPEAELEAVPKGKQESSEPAASKPSTKSSVPQISV



GTTQGGPSGGKSQMQRPLGSSPPYTEALQVFQPLGTQLPPPASLFSLQQLLPQEQEQSSEFFP
TQAMAGLLSSPYSMPLPPSLFQAPPLPLQPTVLHPSQLHLPQLLPHAADIPFQQPPSFLPMPCPAP
STLSGYFLPLQSQFALQLPGEIESHLPPVKTSPLPLATGPPGPSSTEYSSDIQLPPVTPQATSPAPT
SAPPLALPACPDAMVSLVVPVRIQTHMPYSYGSA MYTTLSQILVTQSPGSPASTALTKYEEPSSKSMT
VCEADVYEAEPGPSSISKEQNRGYQTPYLRVPERKGTSLSSSEGILSLEGCSSTASGSKRVLSPAGSL
ELTMETQQQKRVKEEEASKADEKLELVSTCSVLTSTEDRKKTEKPHVGGQGRSRREAETLSSLSS
DVSDPKELSPLSHSTLSHGTAPGSEALKEYAQPSKHAHRRGLPPMSVKKEDPKEQTDLPPLAPPSS
LPLSDTSPKPAKLQEGTDSKKVLQFPSLHTTTNVSWCYLNYIKPNHIQHADRRSSVYAGWCISLYNP
NLPGVSTKAALSLLRSKQKVKSKETYTMATAPHPEAGRLVPSNSRKPRMTEVHLPSLVSPESQKDPA
RVEKEEKQKGAAEGTPTSKRGEPARVKIFEGGYKSNEEYIYVRGRGRGRYVCEECEGIRCKKPSMLK
KHIRTHTDVRPYVCKHCHFAFKTKGNLT KHMKSKAHSSKKCQETGVLEELEAEEGTSDDLHQDSEGG
EGAEAVEEHQFSDLESDSDSDLEDEEEEEEEEEESQDELSGPCSEAAPPCLPPTLQENSSPVEGP
QAPDSTSDEVPQGSSISEATHLTASSCSTPSRGTQGLPRLGLAPLEKDMSSAPSPKATSPRRPWSP
SKEAGSRPSLTRKHS LTKNDSSPQQCSPAREAQASVTSTPGPQMGPGRDLGPHLCGSPRLELSCL
TPYPIGREAPAGLERATDTGTPRYSPTRRWSLGQAESPPQTVLP GKWALAGPCSPSADKSGLG
PVPRALLQPVPLPHTLLSRPETCTSAWRKTESRSPSAGPAPLFPRPFSAPHDFHGHLP SRSEENLF
SHLPLHSQLLSRAPCPLIPIGGIQMVQARPGAQPTVLP GPCAA WVS GFSGGSDLTGAREAQERSR
WSPTESPSASVSPVAKVSKFTLSSELEEERTGRGPGRPPDWEPHRAEAPPGPMGTHSPCSPQLPQ
GHQVAPSWRGLLGSPHTLANLKASSFPPLDRSSMDCLAETSTYSPPRSRLNLSGEP RTRQG SPELL
GRGELRTPFLPKGSGPPSI

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Transcription factor HIVP3 (Human immunodeficiency virus type I enhancer-binding protein 3 homolog) (KB-binding and recognition component) (Kappa-B and V(D)J recombination signal sequences-binding protein) (Kappa-binding protein 1) (KBP-1) (Recombinant component) (Schnurri-3) (Zinc finger protein ZAS3) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Plays a role of transcription factor; binds to recognition signal sequences (Rss heptamer) for somatic recombination of immunoglobulin and T-cell receptor gene segments; Also binds to the kappa-B motif of gene such as S100A4, involved in cell progression and differentiation. Kappa-B motif is a gene regulatory element found in promoters and enhancers of genes involved in immunity, inflammation, and growth and that responds to viral antigens, mitogens, and cytokines. Involvement of HIVP3 in cell growth is strengthened by the fact that its down-regulation promotes cell cycle progression with ultimate formation of multinucleated giant cells. Strongly inhibits TNF-induced NF-kappa-B activation; Interferes with nuclear factor NF-kappa-B by several mechanisms: as transcription factor, by competing for Kappa-B motif and by repressing transcription in the nucleus; through a non transcriptional process, by inhibiting nuclear translocation of RELA by association with

TRAF2, an adapter molecule in the tumor necrosis factor signaling, which blocks the formation of IKK complex. Interaction with TRAF proteins inhibits both NF-Kappa-B-mediated and c-Jun N-terminal kinase/JNK-mediated responses that include apoptosis and pro-inflammatory cytokine gene expression. Positively regulates the expression of IL2 in T-cell. Essential regulator of adult bone formation.

Subcellular Localization: Cytoplasm . Nucleus .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.