

Recombinant Human ZEP3 Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51098

Size: 10ug, 100ug

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

Synonym: HIVP3, KBP1, KIAA1555, KRC, ZAS3

UniProt ID: Q5T1R4

UniProt Link: www.uniprot.org/uniprotkb/Q5T1R4/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 2406 AA

Molecular Weight: 259 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MDPEQSVKGTKKAEGSPRKRLTKGEAIQTSVSSSVYPYPGSGTAATQESPAQELLAPQPFPGPSSVL
REGSQEKTGQQQKPPKRPIEASVHISQLPQHPLTPAFMSPGKPEHLLEGSTWQLVDPMRPGPSG
SFVAPGLHPQSQLLPSHASIIPPEDLPGVPKVFVPRPSQVSLKPTEEAHKKERKPQKPGKYICQYCS
RPCAKPSVLQKHRSHTGERPYPCGPCGFSFKTKSNLYKHRKSHAHRIKAGLASGMGGEMYPHGLE
MERIPGEEFEPTTEGESTDSEETTSATSGHPAELSPRPKQPLLSSGLYSSGSHSSSHERCSSLQSST
AQSLDPPPFVEPSSEHPLSHKPEDTHTIKQKLALRLSERKKVIDEQAFLLSPGSKGSTESGYFSRSES
AEQQVSPNTNAKSIAEIIIFGKCGRIGQRTAMLTATSTQPLLPLSTEDKPSLVPLSVPRQTQVIEHITKLI
TINEAVVDTSEIDSVKPRRSSLSRRSSMESPKSSLYREPLSSHSEKTKPEQSLLSLQHPPSTAPPVPL
LRSHSMPSAACTISTPHHPFRGSYSFDDHITDSEALSHSSHVFTSHPRMLKRQPAIELPLGGEYSSE
EPGPSSKDTASKPSDEVEPKSELTKKTKKGLKTKGVIYECNICGARYKKRDNYEAHKKYCSELQIA
KPISAGTHTSPEAEKSQIEHEPWSQMMHYKLGTTLELTPLRKRKEKSLGDEEEPPAFESTKSQFGS
PGPSDAARNLPLESTKSPAEPKSVPSLEGPTGFQPRTPKPGSGSESGKERRTTSKEISVIQHTSSF
EKSDSLEQPSGLEGEDKPLAQFPSPPPAPHGRSAHSLQPKLVRQPNIQVPEILVTEEPDRPDTEPEP
PPKEPEKTEEFQWPQRSQTALQPLAEKLPKKKRLRLAEMAQSSGESSFESSVPLSRSPSQESNVS
LSGSSRSASFERRDDHGKAEAPSPSSDMRPKPLGTHMLTVPSHHPHAREMRRSASEQSPNVSHSAH
MTETRKSFDYGSLSLTGPSAPAPVAPPARVAPPERRKCFVLRQASLSRPPESELEVAPKGRQSE
EPQPSSSKPSAKSSLSQISSAATSHGGPPGGKGPQDRPPLGPTVPYTEALQVFHHPVAQTPLHEK



PYLPPPVSLFSFQHLVQHEPGQSPEFFSTQAMSSLLSSPYSMPLPPSLFQAPPLPLQPTVLHPGQL
HLPQLMPHPANIPFRQPPSFLPMYPTSSALSSGFFLPLQSQFALQLPGDVESHLPQIKTSLAPLATG
SAGLSPSTEYSSDIRLPPVAPPASSSAPTSAPPLALPACPD TMVSLVVPVRVQTNMP SYG SAMYTTL
SQILVTQSQGSSATVALPKFEEPPSKGTTVC GADVHEVGPGPSGLSEEQSR AFPTPYLRVPVTLPER
KGTSLSSSILSLEGGSSSTAGGSKRVLS PAGSLELT METQQQKRVKEEEASKADEKLELVKPCSVVL
TSTEDGKRPEKSHLGNQGGGRRELEMLSSSLSSDP SDTKEIPPLPHPALSHGTAPGSEALKEYPQPS
GKPHRRGLTPLSVKKEDSKEQPDLPSLAPPSSLPLSETSSRPAKSQEGTDSKKVLQFPSLHTTTNVS
WCYLN YIKPNHIQHADR RSSVYAGWCISLYNPNLPGVSTKAALSLLRSKQKVSKETYTMATAPHPEA
GRLVPSSSRKPRMTEVHLPSLVSP EGQKDLARVEKEEEERRGEPEEDAPASQRGEPARIKIFEGGYK
SNEEYVYVRGRGRGKYVCEE CGIRCKKPSMLKKHIRTHTDVRPYVCKHCHFAFKTKGNLTKHMKSK
AHSKKCQETGVLEELEAE EGTSDDLFQDSEGREGSEAVEEHQFSDLEDSDSDSDLDEDEDEDEEEE
SQDELSRPSSEAPPPGPPHALRADSSPILGPQPPDAPASGTEATRGSSVSEAERLTASSCSMSSQS
MPGLPWLGPAPLGSVEKDTGSALSYKPVSPRRPWSPSKEAGSRPPLARKHSLTKNDSSPQRCSPA
REPQASAPSPPLGHVDPGRGMGALPCGSPRLQLSPLTLCPLGRELAPRAHVLSKLEGT TDPGLPRY
SPTRRWSPGQAESP PRSAPP GWALAGPGSPSAGEHGPGLGLDPRVLFPPAPLPHKLLSRSPETC
ASPWQKAESRSPSCSPGPAHPLSSRPFSALHDFHGHILARTEENIFSHLPLHSQHLTRAPCPLIPIGGI
QMVQARPGAHP TLLPGPTAAWVSGFSGGGSDLTGAREAQERGRWSPTESSASVSPVAKVSKFTL
SSELEGGDY PKERERTGGGPGRPPDWTPHGTGAPAEPTPTHSPCTPPDTLPRPPQGRRAAQSW
PRLESPRAPT NPEPSATPPLDRSSSVGCLAEASARFPARTRNLSGEP RTRQDSPKPSGSGEPRAHP
HQPEDRVPPNA

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) (Kappa-B and V(D)J recombination signal sequences-binding protein) (Kappa-binding protein 1) (KBP-1) (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.