

Recombinant Human STA5B Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP50930

Size: 10ug, 100ug

Protein Name: Signal transducer and activator of transcription 5B

Synonym: STAT5B

UniProt ID: P51692

UniProt Link: www.uniprot.org/uniprotkb/P51692/entry

Species Source: Human

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 787 AA

Molecular Weight: 90 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAVWIAQQLQGEALHQMQUALYGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKATQLLEGLVQ
ELQKKAHQVGEDGFLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNSSPAGSL
ADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRQAQFGPLAQLSPQERLSRE
TALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIIIDDELIQWKRRQQLAGNGGP
PEGSLDVLQSWCEKLAELIQQNRQQIRRAEHLCCQLPIPGPVEEMLAEVNATITDIISALVTSTFIIKQ
PPQVLKTQTKFAATVRLLVGGKLVHNMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVME
YHQATGTLNLSAHLNMSLKRKRSRRGAESVTEEFKFTILFESQFSVGGNELVFQVKTLNLPVVVIVHG
SQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAQVQSNRGLTKENLVFLAQKLF
NNSSSHLEDYSGLSVSWSQFNRENLPGRNYTFWQWFDGVMELKKHLKPHWNDGAILGFVNKQQ
AHDLLINKPDGTFLLRFSDSEIGGITIAWKFDQSQERMFWNLMPTTRDFSIRSLADRLGDLNLIYVFP
DRPKDEVYSKYTPVPCESATAKAVDGYVKPQIKQVVPFVNASADAGGGSATYMDQAPSPAVCP
QAHYNMYPQNPDSVLDTDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS

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 Signal transducer and activator of transcription 5B 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: Signal transducer and transcription activator that mediates cellular responses to cytokines, hormones and growth factors (PubMed:29844444, PubMed:9188471). Binds to the GAS element and activates PRL-induced transcription. Positively regulates hematopoietic/erythroid differentiation. Involved in the oncostatin-M-mediated signaling pathway through type II OSM receptor complex (heterodimers composed of OSMR and IL6ST) (PubMed:9188471).

Subcellular Localization: Cytoplasm . Nucleus . Note=Translocated into the nucleus in response to phosphorylation.

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.