

Recombinant Rat STA5A Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP52485

Size: 10ug, 100ug

Protein Name: Signal transducer and activator of transcription 5A (Mammary gland factor)

Synonym: Stat5a, Mgf

UniProt ID: Q62771

UniProt Link: www.uniprot.org/uniprotkb/Q62771/entry

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 793 AA

Molecular Weight: 91 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MAGWIAQQLQG DALRQMQLVYGQHFPIEVRHYLAQWIESQPWDAIDLDPQDRGQATQLLEGLV
QELQKKAHQVGEDGFVLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGV
LVDAMSQKHLQINQTFEELRLITQDTESELKKLQQTQEYFIIQYQESLRQAQFGQLAQLNPQERMSR
ETALQQKQVSLETWLQREAQTLQQYRVELVEKHQKTLQLLRKQQTII LDDELIQWKRGQQLAGNGG
PPEGSLDVLQSWCEKLA EIIWQNRQQIRRAEHL CQQLPIPGPVEEMLAEVNATITDIISALVTSTFII EK
QPPQVLKTQT KFAATVRLLVGGKLVNVMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVM
EYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTL SLPVVVIVH
GSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKA EVQSNRGLTKENLVFLAQK
LFNRRSNHLEDYNSMSVSWSQFNRENLPGWNYTFWQWFDGVM EVLKKHHKPHWNDGAILGFVNK
QQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTRDFSIRSLADRLGDLNYLIYV
FPDRPKDEVFAKYYPVLAKAVDGYVKPQIKQVVPEFVNASADAGANATYMDQAPSPVVCQA HYN
MYPPNPDPVLDQDGEFDLDETMDVARHVEELLRRPMDSLDPRLSP PAGLFTSARSSL S

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 5A (Mammary gland factor) 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: Carries out a dual signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.

Subcellular Localization: Cytoplasm . Nucleus . Note=Mostly cytoplasmic during pregnancy, whereas it becomes predominantly nuclear during early lactation. It is translocated into the nucleus in response to phosphorylation (By similarity).

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.