
Product Data Sheet

Product Name: EPHA2 Human

Cat. No.: GP23406

Batch No.: 1

Product Data

Purity >98%

Source HEK 293.

Physical Appearance solid

Shipping Condition Shipped at Room temp.

Synonyms EPHA2; EPH Receptor A2; ECK; Tyrosine-Protein Kinase Receptor ECK; EC 2.7.10.1; CTRCT6; ARCC2; CTPP1; CTPA; Epithelial Cell Receptor Protein Tyrosine Kinase; Ephrin Type-A Receptor 2; Soluble EPHA2 Variant 1; Epithelial Cell Kinase; EC 2.7.10; EphA2.

Amino Acid Sequence
 A Q G K E V V L L D F A A A G G E L G W L T H P Y G K G W D L M Q N I M N D M P I Y M Y S V C N V M
 S G D Q D N W L R T N W V Y R G E A E R I F I E L K F T V R D C N S F P G G A S S C K E T F N L Y Y
 A E S D L D Y G T N F Q K R L F T K I D T I A P D E I T V S S D F E A R H V K L N V E E R S V G P L
 T R K G F Y L A F Q D I G A C V A L L S V R V Y Y K K C P E L L Q G L A H F P E T I A G S D A P S L
 A T V A G T C V D H A V V P P G G E E P R M H C A V D G E W L V P I G Q C L C Q A G Y E K V E D A C
 Q A C S P G F F K F E A S E S P C L E C P E H T L P S P E G A T S C E C E E G F F R A P Q D P A S M
 P C T R P P S A P H Y L T A V G M G A K V E L R W T P P Q D S G G R E D I V Y S V T C E Q C W P E S
 G E C G P C E A S V R Y S E P P H G L T R T S V T V S D L E P H M N Y T F T V E A R N G V S G L V T
 S R S F R T A S V S I N Q T E P P K V R L E G R S T T S L S V S W S I P P P Q Q S R V W K Y E V T Y
 R K K G D S N S Y N V R R T E G F S V T L D D L A P D T T Y L V Q V Q A L T Q E G Q G A G S K V H E
 F Q T L S P E K L H H H H H H.

Solubility It is recommended to add 200 μ l deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. EPHA2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Formulation EPHA2 was filtered (0.4 μ m) and lyophilized from 0.5mg/ml solution in phosphate buffered saline and 5% (w/v) trehalose.

Introduction

EPH Receptor A2 (EPHA2) is a member of the ephrin receptor subfamily of the protein-

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tyrosine kinase family. EPHA2 is a protein which binds ephrin-A ligands. EPH and EPH-related receptors are associated with mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily normally have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into two groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. EPHA2 gene mutations are the cause of certain genetically-related cataract disorders.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

EPHA2 Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (Ala24-Glu530) containing a total of 515 amino acids, having a calculated molecular mass of 56.9kDa. The EPHA2 protein is fused to a 2 aa C-terminal linker and a 6 aa C-terminal His tag.

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