A Reliable Research Partner in Life Science and Medicine

Recombinant Bovine Angiopoietin-2/ANG2 protein (His Tag)

Catalog Number: PDEB100009

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Bovine

Source E.coli-derived Bovine Angiopoietin-2 protein His 19-Gln 206, with an N-terminal His

 Calculated MW
 20.6 kDa

 Observed MW
 28 kDa

 Accession
 077802

Bio-activity Not validated for activity

Properties

Purity > 95% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

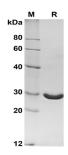
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Bovine Angiopoietin-2/ANG2 proteins, 2µg/lane of Recombinant Bovine Angiopoietin-2/ANG2 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 28 KD.

Background

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Elabscience®

Elabscience Biotechnology Co., Ltd.

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Angiopoietin-2 (Ang-2, also ANGPT2) is a secreted glycoprotein that plays a complex role in angiogenesis and inflammation. Both Ang-2 and the related Angiopoietin-1 (Ang-1) are ligands for the receptor tyrosine kinase Tie-2. While Ang-1 is a potent Tie 2 agonist, Ang-2 may act as either a Tie-2 antagonist or agonist, depending upon its state of multimerization. The higher the order of oligomer, the more effective Ang-2 becomes as a Tie-2 agonist. The short isoform appears to block the binding of either Ang-1 or full-length Ang-2 to Tie-2. Ang-2 functions as a pro-angiogenic factor, although it can also induce EC death and vessel regression. Upon its release from quiescent EC, it regulates vascular remodeling by promoting EC survival, proliferation, and migration and destabilizing the interaction between EC and perivascular cells. In addition, ANG-2 is strongly expressed in the vasculature of many tumors and it has been suggested that ANG-2 may act synergistically with other cytokines such as vascular endothelial growth factor to promote tumor-associated Angiogenesis and tumor progression.