

**PRODUCT INFORMATION**

|   |   |
|---|---|
| <b>Target</b>                           | EDNRA   |
| <b>Synonyms</b>                         | EDNRA, ETA, Endothelin receptor A, ET-A receptor, ETAR  |
| <b>Description</b>                      | Recombinant human EDNRA Protein with C-terminal human Fc tag  |
| <b>Delivery</b>                         | In Stock  |
| <b>Uniprot ID</b>                       | P25101  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Tag</b>                              | C-Human Fc tag  |
| <b>Molecular Characterization</b>       | EDNRA(Asp21-Lys80) hFc(Glu99-Ala330)  |
| <b>Molecular Weight</b>                 | The protein has a predicted molecular mass of 32.9 kDa after removal of the signal peptide.   |
| <b>Purity</b>                           | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.  |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.  |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.   |
| <b>Sterility</b>                        | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.   |
| <b>Background</b>                       | EDNRA (Endothelin receptor type A) is a G-protein coupled receptor (GPCR) that primarily binds endothelin-1 (ET-1). It couples to Gq/11 proteins, activating phospholipase C (PLC), increasing IP <sub>3</sub> /DAG and intracellular Ca <sup>2+</sup> , and triggering smooth muscle contraction. EDNRA is expressed in vascular smooth muscle, heart, and kidney, where it regulates vasoconstriction, blood pressure, and cardiovascular function. Dysregulation of EDNRA signaling is implicated in hypertension, heart failure, and pulmonary arterial hypertension, making it a key therapeutic target in cardiovascular disease. |
| <b>Usage</b>                            | Research use only   |
| <b>Conjugate</b>                        | Unconjugated  |





Figure 1. Human EDNRA Protein, hFc Tag on SDS-PAGE under reducing condition.

DIMABIO CONFIDENTIAL

