PRODUCT INFORMATION

Target	EDNRA
Synonyms	EDNRA, ETA, Endothelin receptor A, ET-A receptor, ETAR
Description	Recombinant human EDNRA Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P25101
Expression Host	HEK293
Tag	C-Human Fc tag
Molecular Characterization	EDNRA(Asp21-Lys80) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 32.9 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	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.
Storage&Shipping	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.
Background	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_3/DAG and intracellular Ca^{2+}, 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.
Usage	Research use only
Conjugate	Unconjugated

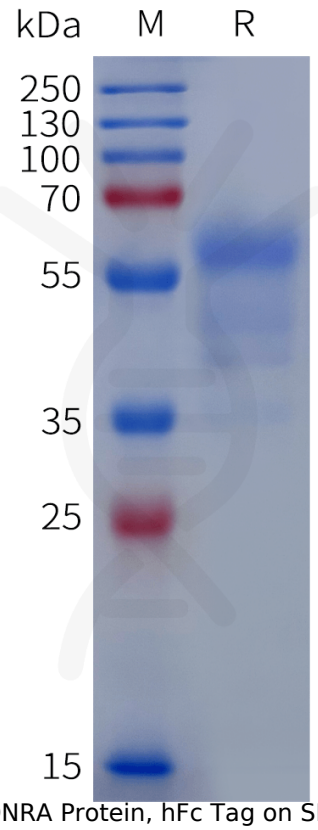

Figure 1. Human EDNRA Protein, hFc Tag on SDS-PAGE under reducing condition.