

EPDR1 Protein, Human (186a.a, HEK293, His)

Cat. No.:	HY-P70935
Synonyms:	Mammalian ependymin-related protein 1; EPDR1; Upregulated in colorectal cancer gene 1 protein; MERP1
Species:	Human
Source:	HEK293
Accession:	Q9UM22 (A38-S223)
Gene ID:	54749
Molecular Weight:	28 & 33 kDa

PROPERTIES

AA Sequence	<pre> A P R P C Q A P Q Q W E G R Q V M Y Q Q S S G R N S R A L L S Y D G L N Q R V R V L D E R K A L I P C K R L F E Y I L L Y K D G V M F Q I D Q A T K Q C S K M T L T Q P W D P L D I P Q N S T F E D Q Y S I G G P Q E Q I T V Q E W S D R K S A R S Y E T W I G I Y T V K D C Y P V Q E T F T I N Y S V I L S T R F F D I Q L G I K D P S V F T P P S T C Q M A Q L E K M S E D C S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>ANGPT1, specifically in the rat model, acts as a pivotal regulator by binding to and activating the TIE2 receptor, thereby initiating its tyrosine phosphorylation. This molecular interaction is implicated in endothelial developmental processes, distinct from those influenced by VEGF, and plays a crucial role in mediating reciprocal interactions between the endothelium and the surrounding matrix and mesenchyme. ANGPT1's involvement extends to mediating blood vessel maturation and stability, indicating its significance in vascular development. Additionally, there is emerging evidence suggesting its potential importance in the early development of the heart.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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