

TEM8/ANTXR1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P77226
Synonyms:	ANTXR1; ATR; Anthrax toxin receptor 1
Species:	Human
Source:	HEK293
Accession:	Q9H6X2 (M1-S321)
Gene ID:	84168
Molecular Weight:	Approximately 69 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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	TEM8/ANTXR1, a multifaceted protein, actively participates in cell attachment and migration. It engages with both extracellular matrix proteins and the actin cytoskeleton, mediating cell adhesion to type 1 collagen and gelatin. This interaction facilitates the reorganization of the actin cytoskeleton and promotes cell spreading, underscoring its crucial role in cellular architecture and motility. Additionally, TEM8/ANTXR1 contributes to the angiogenic response of cultured umbilical vein endothelial cells, emphasizing its involvement in vascular development. Notably, in microbial infection scenarios, TEM8/ANTXR1 serves as a receptor for the protective antigen (PA) of Bacillus anthracis, highlighting its dual role in cellular processes and host-pathogen interactions.
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Caution: Product has not been fully validated for medical applications. For research use only.

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