

Recombinant Human TEM8/ATR Protein (Fc Tag)

Catalog No. PKSH030646

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

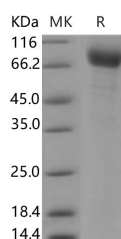
Description

Synonyms	Anthrax Toxin Receptor 1;Tumor Endothelial Marker 8;ANTXR1;ATR;TEM8
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Ser321
Accession	Q9H6X2-4
Calculated Molecular Weight	59.4 kDa
Tag	C-hFc
Bioactivity	Not validated for activity

Properties

Purity	> 92 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg 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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 92 % as determined by reducing SDS-PAGE.

Background

ANTXR1 contains 1 VWFA domain and belongs to the ATR family. ATR (Ataxia telangiectasia and Rad3 related) and ATM (Ataxia telangiectasia mutated) are closely related kinases that are activated by DNA damage. They are serine-threonine protein kinases and belongs to the phosphatidylinositol 3' kinase-like kinase (PIKK) family. Upon recruitment

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by the DNA damage binding proteins/complexes (ATRIP for ATR; MRN for ATM); ATM/ATR initiate the DNA damage checkpoint by phosphorylating a number of key proteins. ANTXR1 interacts with extracellular matrix proteins and with the actin cytoskeleton. It functions in cell attachment and migration. ANTXR1 also mediates adhesion of cells to type 1 collagen and gelatin; reorganization of the actin cytoskeleton and promotes cell spreading. It plays a role in the angiogenic response of cultured umbilical vein endothelial cells.