

Ebola virus VP24 Protein (AHX24653, His)

Cat. No.:	HY-P76310
Synonyms:	Ebola virus EBOV (subtype Zaire, strain H.sapiens-wt/GIN/2014/Kissidougou-C15) VP24 Protein; VP24 Protein; EBOV
Species:	Virus
Source:	E. coli
Accession:	AHX24653 (M1-G233)
Gene ID:	/
Molecular Weight:	Approximately 28.5 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50 mM Tris, 500 mM NaCl. 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	<p>Ebola virus (EBOV) possesses a single-stranded, negative sense RNA genome of approximately 19 kilobases that encodes seven structural proteins: the nucleoprotein (NP), VP35, VP40, the glycoprotein (GP), VP30, VP24, and the RNA-dependent RNA polymerase L^[1]. VP24 is one of two proteins of the ebolaviruses that can antagonize IFN responses (the other is VP35). VP24 inhibits signaling downstream of IFNα/β and IFNγ, by trapping karyopherin α proteins (α1, α5 and α6) in the cytoplasm, and prevents them from shuttling otherwise activated, phosphorylated STAT1 to the nucleus. VP24 also prevents phosphorylation of p38 MAPK^{[2][3]}. Besides, the interaction between NP and VP24 is essential for nucleocapsid formation and packaging into the virion^[1]. VP24 is a critical target in the development of anti-EBOV agents.</p>
------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA