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Recombinant Monkeypox Virus Zaire-96-I-16 A30L Fc Chimera

RDsystems

Catalog Number: 11279-MX

Human embryonic kidney cell, HEK293-derived monkeypox virus zaire-96-i-16 A30L protein			
MD	Human IgG ₁ (Pro100-Lys330)	IEGR	MPXV A30L (Gin22-Leu146) Accession # NP_536567.1
N-terminus			C-terminus
Met			
Disulfide-linked homodimer			
41 kDa			
	MD N-terminus Met Disulfide-linked homodimer	MD Human lgG1 (Pro100-Lys330) N-terminus Met Disulfide-linked homodimer	MD Human IgG1 (Pro100-Lys330) IEGR N-terminus Met Disulfide-linked homodimer

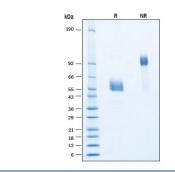
SPECIFICATIONS		
SDS-PAGE	52-60 kDa, under reducing conditions.	
Activity	Bioassay data are not available.	
Endotoxin Level	<0.10 EU per 1 μ g of the protein by the LAL method.	
Purity	>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.	

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 500 μg/mL in PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 	
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- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 3 months -20 to -70 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

DATA

SDS-PAGE



Recombinant Monkeypox Virus Zaire-96-I-16 A30L Fc Chimera Protein SDS-PAGE. 2 µg/lane of Recombinant Monkeypox Virus Zaire-96-I-16 A30L Fc Chimera Protein (Catalog # 11279-MX) was resolved with SDS-PAGE under reducing (R) and nonreducing (NR) conditions and visualized by Coomassie® Blue staining, showing bands at 52-60 kDa and 100-120 kDa, respectively.

BACKGROUND

Monkeypox Virus (MPXV), the virus that causes monkeypox infection in both humans and animals, is a double-stranded DNA virus that has had a recent global outbreak in 2022 (1). MPXV belongs to the Poxviridae family of viruses (2). It consists of several key subunits including a surface membrane fusion protein (A29L, ~14 kDa), two separate envelope proteins (A30L, ~14 kDa and H3L, ~32kDa), an envelope glycoprotein (A35R ~15 kDa), a receptor glycoprotein that mimics IFN-alpha/beta (B16, ~37kDa), a palmitoylated EEV membrane glycoprotein (C19L, ~35 kDa), a secreted IL-18 binding protein (D6L, ~14kDa), a cell surface-binding protein (E8L, ~32 kDa), a telomere binding protein (I1L, ~36kDa), and a subunit required for DNA packaging (L1R, 18 kDa) (2-3). The envelope protein A30L was reported to play a role in association of viral membrane with the dense viroplasm (4).

References:

- 1. Breman, J.G. et al. (1980) Bull World Health Organ. 58:165.
- 2. Farahat, R.A. et al. (2022) Infez Med. 30:372.
- 3. Schelkunov, S.N. et al. (2002) Virology 297:172.
- 4. Szajner, P. et al. (2006) J. Virol. 80:306.

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