

Active Recombinant Monkeypox virus (Democratic Republic of the Congo) A30L Protein, His-tagged

Cat. No. A30L-022M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Monkeypox virus (Democratic Republic of the Congo) A30L Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Leu 146 (Accession # EPI_ISL_19093812, GISAID). This protein carries a polyhistidine tag at the N-terminus. Predicted N-terminus: His
Species	MPXV
Source	HEK293
ProteinLength	22-146 aa
Description	Monkeypox is a rare zoonosis caused by monkeypox virus, which has become the most serious orthopoxvirus and consists of complex double stranded DNA. The pathogenesis of monkeypox is that the virus invades the body from respiratory mucosa, multiplies in lymphocytes, and incurs into blood producing transient venereal toxemia. after the virus multiplies in cells, the cells can invade the blood and propagate to the skin of the whole body, causing lesions. A30L is a Envelope protein required for virus entry into host cell and for cell-cell fusion (syncytium formation).
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Monkeypox virus (Democratic Republic of the Congo) A30L Protein, His Tag at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Monkeypox-A30L Antibody, Human IgG1 (5F3) with a linear range of 0.1-4 ng/mL.

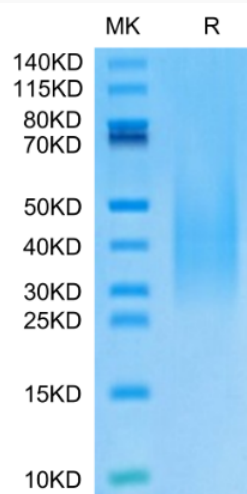
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Molecular Mass	The protein has a calculated MW of 16.0 kDa. The protein migrates as 25-33 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
GENE INFORMATION	
Official Symbol	A30L
Synonyms	A30L; MPXV-Ikubi-120; MPXVgp127; Soluble myristylprotein

SDS-PAGE.



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