MONKEYPOX VIRUS A29L PROTEIN, HIS TAG

Cat.#: 11815

Product Name: Monkeypox Virus A29L Protein

Size : 10 μg, 50 μg and 100 μg

Synonyms: A29L

Target: A29L

UNIPROT ID: Q77HM6

Description: Recombinant Monkeypox virus A29L Protein with C-terminal 6xHis tag

Background: Monkeypox is a rare zoonosis caused by monkeypox virus, which has become the most serious orthpoxvirus and consists of complex double stranded DNA. The cases are mostly in central and western Africa. 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. A29L binds to cell surface heparin to promote fusion of viral membrane with host plasma membrane.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 13.4 kDa after removal of the signal peptide. The apparent molecular mass of Monkeypox virus A29L-His is approximately 10-25 kDa due to glycosylation.

Molecular Characterization: Monkeypox virus A29L(Met1-Glu110) 6×His tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

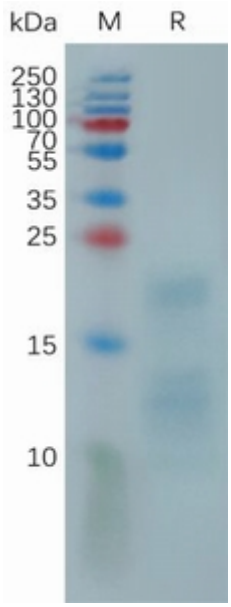

Figure 1. Monkeypox virus A29L Protein, His Tag on SDS-PAGE under reducing condition.