

# Active Recombinant HIV-1 GP120 Protein, His-Avi-tagged, Biotinylated

Cat. No. GP120-269H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated HIV-1 [HIV-1/Clade B/C (CN54)] GP120, His-Avi Tag derived from the env. gene of HIV-1 strain CN54 gp160 (Accession # G4XFJ5-1 (E46G, T396A, A497T), Thr 36 - Arg 507) and glycosylated with N-linked sugars and expressed in HEK293 cells. This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag.
<b>Species</b>	HIV
<b>Source</b>	HEK293
<b>ProteinLength</b>	36-507 a.a.
<b>Predicted N Terminal</b>	Thr 36
<b>Form</b>	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
<b>Bio-activity</b>	Immobilized Human CD4, Fc Tag at 5 ug/mL (100 uL/well) can bind Biotinylated HIV-1 [HIV-1/Clade B/C (CN54)] GP120, His Tag, Avi Tag with a linear range of 0.156-1.25 ug/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 56.7 kDa. The protein migrates as 90-116 kDa under reducing condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.

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<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Characteristic</b>	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Official Symbol</b>	GP120
<b>Synonyms</b>	GP120, GP120-CN54

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