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

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

SPECIFICATION

Product Overview	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.
Species	HIV
Source	HEK293
ProteinLength	36-507 a.a.
Predicted N Terminal	Thr 36
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	>95% as determined by SDS-PAGE.
Characteristic	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.
Stability	Samples are stable for up to twelve months from date of receipt at -70ºC.
Storage	For long term storage, the product should be stored at lyophilized state at -20ºC or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8ºC for 12 months in lyophilized state; -70ºC for 3 months under sterile conditions after reconstitution.
Reconstitution	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℃ before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Official Symbol	GP120
Synonyms	GP120, GP120-CN54

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA