

## Active Recombinant HIV(group M, subtype CRF07\_BC) gp140 protein, hFc-tagged

Cat. No. gp140-1949H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant HIV(group M, subtype CRF07_BC) gp140 protein(Ala 29-Ser 661), was expressed in HEK293, fused with the Fc region of human IgG1 at the C-terminus and a signal peptide at the N-terminus.                                                           |
| <b>Species</b>          | HIV                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 29-661 aa                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Using the Octet RED System, the affinity constant (Kd) of gp140-Fc bound to human CD4 is 0.3 $\mu$ M.                                                                                                                                                                |
| <b>Molecular Mass</b>   | The recombinant HIV-1 gp140 consists of 874 amino acids after removal of the signal peptide and has a predicted molecular mass of 98 kDa. The apparent molecular mass of the recombinant protein is approximately 210-230 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.                                                                                                                                                                                                 |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                     |

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**Storage**

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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