



Recombinant Protein Technical Manual

Recombinant HIV Recombinant HIV gp120 Protein (His Tag) RPES3514

Product Data:

Product SKU: RPES3514

Size: 10µg

Species: HIV

Expression host: Human Cells

Uniprot: Q9DKG6

Protein Information:

Molecular Mass: 57 kDa

AP Molecular Mass: 10530 kDa

Tag: C-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Envelope glycoprotein gp120; Glycoprotein 120; Surface protein gp120

Immunogen Information:

Sequence: Met1-Glu498

Background:

Envelope glycoprotein gp160 is single-pass type I membrane protein. The mature envelope protein (Env) consists of a homotrimer of non-covalently associated gp120-gp41 heterodimers. It is cleaved into the following 2 chains: glycoprotein 120 and transmembrane protein gp41. The resulting complex protrudes from the virus surface as a spike. The 17 amino acids long immunosuppressive region is present in many retroviral envelope proteins. Synthetic peptides derived from this relatively conserved sequence inhibit immune function in vitro and in vivo.