

Recombinant HIV-1 gp41 Antigen, Tag Free

Cat. No. gp41-08H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-1 gp41 containing immunodominant epitopes from multiple HIV-1 clades (A, B, C, D, and E).
Species	HIV
Source	E.coli
Description	The transmembrane protein gp41 (TM) acts as a class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats) assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes. Membranes fusion leads to delivery of the nucleocapsid into the cytoplasm.
Tag	Non
Molecular Mass	30 kDa
Reactivity	Protein reacts with human HIV-1 antibody positive serum in Western Blot assay.
Purity	≥ 85% pure by SDS-PAGE
Storage	At -60 centigrade or below

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Concentration	Approximately 0.3 mg/mL by absorbance at A280 nm
Storage Buffer	Phosphate Buffered Saline (PBS), pH 7.4 and 0.3% N-Lauroylsarcosine

GENE INFORMATION

Official Symbol	gp41
Synonyms	env; Glycoprotein 41; gp41; TM; Transmembrane protein