

Recombinant HIV-1 gp41 (Ectodomain Subtype B)

Product Code: BA01B-C

HIV-1 gp41 (Subtype B) represents the transmembrane component of the HIV envelope complex and is one of the most widely used antigens in HIV serology. Antibodies directed against gp41 are generated early and persist throughout infection, making it an essential target for diagnostic applications. Derived from the predominant subtype in North America and Western Europe, this antigen has been incorporated into numerous commercial HIV screening platforms. It is well suited for use in antibody detection assays, assay validation studies, and multiplex diagnostic development. The protein provides a robust and extensively validated target for HIV-1 serological testing.

Related products from Fluorobiot**tech**

- ▶ HIV-1 gp41 (Group O Variant)
- ▶ HIV-1 p24 (Subtype C Clone)
- ▶ HIV-2 gp36 (Ectodomain)

PROPERTIES

Source	Recombinantly produced in <i>E. coli</i>
Size	1.0 mg
Purity (SDS-PAGE)	>95% as determined by SDS-PAGE
Tag	His tag
Form	Lyophilised (white powder)
Molecular weight	~16 kDa
Concentration	1.0 mg/mL when reconstituted as recommended. Each laboratory should determine optimum working titre for use in its particular application
Activity	Binds HIV-1 positive serum antibodies
Applications	ELISA, WB, LF
Species	Human immunodeficiency virus type 1 (Subtype B)
Storage and stability	Store at 15-25°C lyophilized; 4 °C when reconstituted.
Storage buffer	20mM Na-carbonate, pH 9.6
Shipping	Ambient temperature
Animal origin free	Yes

Precautions and Disclaimer

This product is for laboratory research use only. It is not suitable for human therapeutic or diagnostic use. Please consult the Material Safety Data Sheet for handling recommendations before working with this material