

Recombinant HIV-1 p24 (Subtype C)

Product Code: BA04-C

Recombinant HIV-1 p24 (Subtype C Clone) is the major capsid protein of HIV-1 and a key biomarker for the early detection of infection. Produced through proteolytic cleavage of the Gag polyprotein precursor (Pr55Gag), p24 forms the characteristic conical capsid that encapsulates the viral RNA genome within mature, infectious virions. As one of the earliest detectable markers following HIV infection, p24 is widely utilized in fourth-generation diagnostic assays to reduce the serological window period, enabling detection as early as two weeks post-infection. This recombinant protein is ideally suited for HIV assay development, quality control applications, and studies of HIV capsid biology. The use of a Subtype C-derived antigen provides enhanced relevance for populations in Southern Africa and other regions where Subtype C predominates.

Related products from Fluorobiottech

- ▶ HIV-1 gp41 (Subtype B)
- ▶ HIV-1 gp41 (Group O Variant)
- ▶ HIV-2 gp36 (Ectodomain)

PROPERTIES

Source	Recombinantly produced in <i>E. coli</i>
Size	500µg
Purity (SDS-PAGE)	>95% as determined by SDS-PAGE
Tag	His tag
Form	Lyophilised (white powder)
Molecular weight	~26.7 kDa
Concentration	0.5 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 C)
Storage and stability	Store at 15-25°C lyophilized; 4 °C when reconstituted.
Storage buffer	20mM Na-carbonate, pH 10
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