

Recombinant HIV-1 gp36 (Ectodomain)

Product Code: BA02-F

HIV-2 gp36 (Ectodomain) is the transmembrane envelope glycoprotein of HIV-2 and serves as the structural and functional homolog of HIV-1 gp41, mediating membrane fusion during viral entry. Although HIV-2 is generally associated with lower infectivity and slower progression to AIDS compared to HIV-1, distinguishing between the two viral species remains a critical diagnostic objective due to differences in clinical outcomes and treatment strategies. Despite the structural similarities between HIV-1 gp41 and HIV-2 gp36, their immunodominant regions exhibit limited cross-reactivity, enabling the reliable serological differentiation of HIV-1 and HIV-2 infections. Consequently, recombinant gp36 is widely employed in diagnostic immunoassays and multiplex HIV screening platforms to improve analytical specificity and broaden diagnostic coverage. This product is ideally suited for assay development, serological testing, and applications requiring accurate discrimination between HIV-1 and HIV-2 infections.

Related products from Fluorobiot**tech**

- ▶ HIV-1 p24 (Subtype C)
- ▶ HIV-1 gp41 (Subtype B)
- ▶ HIV-1 gp41 (Group O Variant)

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	Clear colourless liquid
Molecular weight	~17kDa
Concentration	1.0 mg/mL
Activity	Binds HIV-2 positive serum antibodies
Applications	ELISA, WB, LF
Species	Human immunodeficiency virus type 2
Storage and stability	Aliquot and store at -80°C, avoid repeated freeze-thaw cycles
Storage buffer	50mM Sodium Formate pH 3.0
Shipping	Ice packs
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