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BIN020 Recombinant Human Immunodeficiency Virus-1 (HIV-1), gp41

Alternate names: HIV-I, HIV1, Human immunodeficiency virus type 1

Quantity: 1 mg

Concentration: 1.7 mg/ml (BCA)

Background: HIV is a highly variable virus which mutates very readily. This means there are many different strains of HIV, even within the body of a single infected person. The strains of HIV1 can be classified into three groups : the "major" group M, the "outlier" group O and the "new" group N. These three groups may represent three separate introductions of simian immunodeficiency virus into humans. Group O appears to be restricted to West-Central Africa and group N, discovered in 1998 in Cameroon, is extremely rare. More than 90% of HIV1 infections belong to HIV1 group M.

Source: Pichia pastoris

Format: **State:** Liquid purified protein
Purity: Purity compares with refernce lot (verified by SDS-PAGE).
Buffer System: 1M Urea, 0.02M Sodium Phosphate, 0.5M Sodium Chloride, pH 7.4 ± 0.2 containing no preservatives

Applications: Suitable for **ELISA** and **Western blot.**
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Description: Recombinant ecto-domain of HIV-1 gp41 (amino acids 541-682 from strain HxB2). Contains a 6 histidine fusion partner. Reacts with HIV-1 positive human sera and monoclonal antibodies specific for conformational and linear epitopes as determined by Western blot. Three major immunospecific bands migrating between 20 and 30 kDa, minor bands between 20 and 30 kDa and at ~14 and ~7 kDa, and an aggregation smear at ~35 kDa and greater.

Add. Information: Internal thread vial. Centrifuge product before opening!

Storage: Upon receipt, store (in aliquots) at -20°C to -80°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations: **Purchased from Acris:**

1. Gordts SC, Renders M, Férir G, Huskens D, Van Damme EJ, Peumans W, et al. NICTABA and UDA, two GlcNAc-binding lectins with unique antiviral activity profiles. J Antimicrob Chemother. 2015 Jun;70(6):1674-85. doi: 10.1093/jac/dkv034. Epub 2015 Feb 19. PubMed PMID: 25700718.
2. Rivero-Buceta E, Doyagüez EG, Colomer I, Quesada E, Mathys L, Noppen S, et al. Tryptophan dendrimers that inhibit HIV replication, prevent virus entry and bind to the HIV envelope glycoproteins gp120 and gp41. Eur J Med Chem. 2015 Oct 21;106:34-43. doi: 10.1016/j.ejmech.2015.10.031. PubMed PMID: 26513643.