Reagent: HIV-1 RSC3 G367R Recombinant Protein

Catalog Number: 12363

Lot Number: 130009

Provided: 200 µg of lyophilized protein. Add 1 mL of PBS, or less to obtain your desired concentration.

Molecular Weight: Appeared as a 65 KD protein (Calculated M.W. is 36.5 KD).

Purity: >95%

Description:
This HXB2-based gp120 protein was designed to enhance CD4 binding site (CD4bs)-directed antibody binding. The G367R mutation maintains binding of strongly neutralizing mAbs such as VRC01 while reducing binding of other CD4bs-mAbs.

Special Characteristics: Resurfaced Stabilized Core 3 (RSC3) is based on the HXB2 Ds12F123 stabilized core. This protein lacks variable regions V1, V2, and V3, is truncated at the N- and C-terminal regions, and is cross-linked at different subregions to stabilize the structure. In ELISAs, it binds strongly to 2G12 and strong-moderately to VRC01, weakly to VRC03 and doesn't bind to b12.

Alternate names: Resurfaced stabilized core G367R protein, RSC3 G367R

Recommended Storage: Keep at -80°C. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Drs. Zhi-Yong Yang, Peter Kwong, Gary Nabel and John Mascola

References:

This article details the differences of binding between the 4 RSC3 proteins ARP offers.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.
This article details the differences of binding between the 4 RSC3 proteins ARP offers and various broadly neutralizing antibodies. Please note Table 1.

NOTE:

Acknowledgment for publications should read “The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 RSC3 G367R Recombinant Protein (Cat #12363) from Drs. Zhi-Yong Yang, Peter Kwong, Gary Nabel.” Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact: The Office of Technology Development, NIAID, 6610 Rockledge Drive, Suite 2800, MSC 6606, Bethesda, MD, 20892-6606, Tel: 301-496-2644, Fax: 301-402-7123, before the reagent can be released.

Last Updated: August 26, 2016