



## NIH AIDS Reagent Program

20301 Century Boulevard  
Building 6, Suite 200  
Germantown, MD 20874  
USA

Phone: 240 686 4740  
Fax: 301 515 4015  
aidsreagent.org

### DATA SHEET

<b>Reagent:</b>	HIV-1 MN p7
<b>Catalog Number:</b>	2738
<b>Lot Number:</b>	11 110249
<b>Provided:</b>	50 µg, lyophilized. Dissolve in 25 µl of 50 mM Tris HCl (pH 7.5) <b>and use immediately</b> ; left over reagent should then be aliquoted, frozen and used as soon as possible. If only a small amount is required and the rest intended for storage, then it is recommended that the user dilute the protein in water, aliquot, lyophilize the aliquots, and then dilute an aliquot in the above buffer as needed.
<b>Molecular Weight:</b>	Approximate weight: 6452 Da (p7.2Zn = 6582 Da).
<b>Purity:</b>	98% pure by Edman sequencing, amino acid analysis, and mass spectroscopy. Zinc binding ability assayed by spectrofluometry.
<b>Special Characteristics:</b>	Protein is highly susceptible to air oxidation. The viral strain is HIV-1 <sub>MN</sub> clone 4. It is not glycosylated. Sequence corresponds to native p7. Production: Produced in <i>E. coli</i> as a maltose binding protein-Factor Xa cleavage site-p7 fusion protein. HIV-1 p7 was isolated by reverse phase HPLC after cleavage with factor Xa.
<b>Recommended Storage:</b>	-70°C.
<b>Contributor:</b>	Dr. Rob Gorelick, AIDS Vaccine Program, SAIC-Frederick, Inc.
<b>References:</b>	South TL, Blake PR, Sowder RC III, Arthur LO, Henderson LE, Summers MF. The nucleocapsid protein isolated from HIV-1 particles binds zinc and forms retroviral-type zinc fingers. <i>Biochemistry</i> <b>29</b> :7786-7789, 1990. Lam W-C, Maki AH, Casas-Finet JR, Erickson JW, Kane BP, Sowder RC, Henderson LE. Phosphorescence and optically detected magnetic resonance investigation of the binding of the nucleocapsid protein of the human immunodeficiency virus type 1 and related peptides to RNA. <i>Biochemistry</i> <b>33</b> :10693-10700, 1994.

---

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.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1<sub>MN</sub> p7 from Dr. Rob Gorelick, AIDS Vaccine Program, SAIC-Frederick, Inc." Also include the references cited above in any publications.

**Last Updated:** June 09, 2014

---

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.