

Centre for AIDS Reagents

Data Sheet

DESCRIPTION:	Recombinant HIV-1 MN gp120
REPOSITORY REFERENCE:	EVA646
PROTEIN:	Recombinant HIV-1 MN Envelope Glycoprotein
DESCRIPTION:	Gene cloned from T-cell-tropic HIV-1 MN strain and the full length recombinant envelope gp120 glycoprotein produced in the Baculovirus Expression System.
SEQUENCE:	<p>gp120 MN</p> <pre> TEKLWVTVYYGVPVWKEATTLFCASDAKAYDTEAHNVWATHACVPTDPN PQVELVNVTFENFMWKNMVEQMHEDIISLWDQSLKPCVKLTPLCVTLN CTDLRNTTNTNDSTANNNSNSEGTIKGGEMKNCSEFNITTSIGNKMQKEYA LLYKLDIEPIDNDSTSHRLISCNLSVITQACPKISFEPIPIHYCAPAGFA ILKCNDDKFGSGKSCKNVSTVQCTHGIRPVVSTQLLNGSLAEEEVVIRS EDFTDNAKTIIVHLKESVQINCTRPNYNKRRIHIGPGRAFYTTKNIKGT IRQAHCTISRAKWNDLRQIVSKLKEQFKNKTIVFNPSGGDPEIVMHSF NCGGEFFYCNTSPLFNSTWNGNNTWNNTTGSNNNI TLQCKVKQIINMWQK VGKAMYAPPIEGQIRCSSNITGLLLTRDGGEDTDNDTEIFRPGGGDMRD NWRSELYKYKVVTIEPLGVAPTAKARRVVQREKR </pre>
PURITY:	This protein is purified by immuno-affinity chromatography to >95% purity as determined by SDS-PAGE, reduced.
BUFFER:	PBS
PRESENTATION:	50µg
APPLICATIONS:	T- Cell Activation CD4 Binding In-Vitro Diagnostics
SPECIFICITY:	This protein binds to murine monoclonal antibodies of defined epitope specificity and HIV-1 converted human serum polyclonal antibodies in ELISA and Western ELISA.
BIOLOGICAL ACTIVITY:	This protein binds to human T-cell receptor CD4 in ELISA and Western ELISA as determined by CD4/gp120/Anti gp120 mAb-peroxidase capture ELISA. This protein activates human T-Lymphocytes (CD4+, CD4 -), in vitro, as measured by RNA

synthesis during G0 to G1 transition phase of antigen-binding competent cells.

CONCENTRATIONS:

A dose dependent response assay should be performed to determine the optimal concentration for use in specific applications.

NOTE:

ELISA and Western ELISA require 10-100ng protein depending on the nature and affinity of the detection reagent. Human serum polyclonal antibodies yield titres of 1:1000 or greater at 10-100ng of immobilised protein under standard ELISA conditions.

STORAGE:

75°C, Stability at least 24 months.

SOURCE:

ImmunoDiagnostics.

ACKNOWLEDGEMENTS:

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Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)