

Resource Summary Report

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Conjugation of Keyhole limpet haemocynin to Peptide 254-274 of HIV gp-120 as immunogen.

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.bjh7kj9n>

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Summary: Chemical synthesis facilitates the generation of peptides which are difficult to express in bacteria. The fragment 254-274 of the human immunodeficiency virus (HIV) is critical for infectivity of the virus and induction of antibody neutralization (Ho et al, 1988). Boudet et al, 1995 demonstrated that a synthetic peptide derived from the third variable domain of the HIV-1 gp-120 when used as immunogen was able to induce an antibody response to multiple (up to six) HIV strains. ReferenceHo DD, Kaplan JC, Rackauskas IE, Gurney ME. Second conserved domain of gp120 is important for HIV infectivity and antibody neutralization.Science. 1988;239(4843):1021-1023. doi:10.1126/science.2830667.Boudet F, Keller H, Kieny MP, Th??ze J. Single peptide and anti-idiotypic based immunizations can broaden the antibody response against the variable V3 domain of HIV-1 in mice.Mol Immunol. 1995;32(7):449-457. doi:10.1016/0161-5890(95)00007-2

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