

Peptide Pool, Human Immunodeficiency Virus Type 1 Subtype B (Consensus) Gag Region

Catalog No. HRP-12425

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For research use only. Not for use in humans.

Contributor:

NIH HIV Reagent Program

Manufacturer:

Biosynth International, Inc.

Product Description:

HRP-12425 is a series of 123 peptides spanning the entire human immunodeficiency virus type 1 (HIV-1) subtype B Gag region (consensus). The HIV-1 consensus B Gag reference sequence was obtained from the 2002 consensus B Gag sequence from the Los Alamos National Laboratory (LANL) HIV database. Most peptides are 15- or 12-mers, with 11 amino acid overlaps. Please see the Certificate of Analysis for length and sequence of individual peptides.

Material Provided:

HRP-12425 contains 1 vial of lyophilized peptides. Each peptide from BEI Resources Catalog No. ARP-8117 peptide array was pooled together and then distributed such that each vial contains 50 µg of each peptide, 6.15 mg total peptide.

Packaging/Storage:

Lyophilized peptides should be placed in a closed, dry environment with desiccants and stored at -20°C or colder immediately upon arrival. A frost-free freezer should be avoided since changes in moisture and temperature may affect peptide stability.

Solubility:

Solubility may vary based on the amino acid content of the individual peptide (see Certificate of Analysis).

Reconstitution:

Lyophilized peptides should be warmed to room temperature for 1 hour prior to reconstitution. They should be dissolved at the highest possible concentration and then diluted with water or buffer to the working concentration. Buffer should be added only after the peptide is completely in solution because salts may cause aggregation.

The most common dissolution process is 1 mg of peptide in 1 mL of sterile, distilled water. Peptides that are not soluble in water can almost always be dissolved in DMSO. Once a peptide is in solution, the DMSO can be slowly diluted with aqueous medium. Care must be taken to ensure that the peptide does not begin to precipitate out of solution. For cell-based assays, 0.5% DMSO in medium is usually well-tolerated.

Sonication and/or the addition of small amounts of dilute (10%) aqueous acetic acid for basic peptides, aqueous ammonia for acidic peptides or acetonitrile may also help dissolution (see Certificate of Analysis). These solvents may not be appropriate for certain applications, including cell-based assays.

Storage of Reconstituted Peptides:

The shelf life of peptides in solution is very limited, especially for sequences containing cysteine, methionine, tryptophan, asparagine, glutamine and N-terminal glutamic acid. In general, peptides may be aliquoted and stored in solution for a few days at -20°C or colder. For long-term storage, peptides should be re-lyophilized and stored at -20°C or colder. If long-term storage in solution is unavoidable, peptide solutions should be buffered to pH 5-6, aliquoted and stored at -20°C or colder. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Peptide Pool, Human Immunodeficiency Virus Type 1 Subtype B (Consensus) Gag Region, HRP-12425.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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