

HIV Integrase Protein Inhibitor(1)

PRODUCT DESCRIPTION

HIV Integrase Protein Inhibitor(1) is a 6-amino-acid synthetic peptide. A synthetic peptide used as a research tool in biochemistry, pharmacology, and biomedical research. This peptide enables the study of protein-protein interactions, receptor binding, enzyme substrate specificity, and signal transduction pathways. Available in high purity ( $\geq 95\%$  by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

|                   |                                                                               |
|-------------------|-------------------------------------------------------------------------------|
| Catalog Number    | BPT2079                                                                       |
| CAS Number        | 172546-75-7                                                                   |
| Molecular Weight  | 906.0612 Da                                                                   |
| Molecular Formula | C <sub>46</sub> H <sub>55</sub> N <sub>11</sub> O <sub>7</sub> S <sub>1</sub> |
| Purity            | Peak Area by HPLC $\geq 95\%$                                                 |
| Form              | Lyophilized                                                                   |
| Source            | Synthetic (Chemical Synthesis, SPPS)                                          |
| Endotoxin         | N/A (Synthetic peptide)                                                       |

AMINO ACID SEQUENCE

One-Letter Code:

HCKFWW

Three-Letter Code:

H-His-Cys-Lys-Phe-Trp-OH

RESEARCH APPLICATIONS

|                  |                               |
|------------------|-------------------------------|
| Application      | Antiviral activity            |
| Biomarker Target | Viral Proteins                |
| Research Area    | Infectious Disease            |
| Sub-category     | Antiviral Peptides & Vaccines |

STORAGE & HANDLING

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Storage Temperature  | -20 deg C                                             |
| Form                 | Lyophilized                                           |
| Stability            | Lyophilized product stable for 24 months at -20 deg C |
| Reconstitution       | Reconstitute in sterile water or appropriate buffer   |
| After Reconstitution | Aliquot and store at -20 to -80 deg C                 |
| Avoid                | Repeated freeze-thaw cycles                           |

AVAILABLE SIZES

|              |             |
|--------------|-------------|
| Size Options | 1 mg, 10 mg |
|--------------|-------------|

## Usage

Research use

## QUALITY CONTROL

### Purity Method

HPLC, Mass Spectrometry (MS)

## Identity

Confirmed by ESI-MS or MALDI-TOF

## Purity

### Peak Area by HPLC >=95%

## Documentation

Certificate of Analysis (CoA) available upon request