

Analytical Data Sheet

Lot number

9017290

not for drug use

Catalog Number

H-9040.0100

Product number

4030739.0100

Product

rec HIV- 1 Protease (expressed in E. coli)

Molecular formula

Relative molecular mass

Tests	Results
Purity (SDS-PAGE)	> 95% SDS-PAGE
Assay (HPLC)	<p>the recommended Assay by HPLC procedure is as follows:</p> <p>A) Prepare a 1 mg/ml solution of Bachem's H-1048 HIV Substrate IV in assay buffer. (Assay buffer: 100 mM NaOAc, 300 mM NaCl, 4 mM EDTA, adjust pH to 4.7).</p> <p>B) Dilute 15 µl of the above substrate stock into 98 µl of assay buffer.</p> <p>C) Add 10 µl of H-9040 HIV 1 PR to 10 µl of chilled assay buffer.</p> <p>(Keep this diluted protease solution on ice!)</p> <p>D) Pre-warm substrate in tube for about 30 seconds at 37°C before adding protease.</p> <p>E) Pipette 2 µl of the protease solution into the sample containing the diluted substrate.</p> <p>F) Incubate this sample at 37°C for 1 minutes.</p> <p>G) Quench the reaction with 10 µl of 10% (v/v) TFA in H₂O.</p> <p>H) Monitor substrate hydrolysis using RP-HPLC (C₁₈ column).</p> <p>Products are optimally eluted with a linear gradient from 5-65% MeCN in 15 minutes. The recommended wavelength is 220 nm.</p>
General comment	<p>Specific Activity: 3.11 x 10⁴ nmol/min/mg (based on assay HPLC)) QC2-11-WE-075</p> <p>Concentration: 0.215 mg/ml EXBIO</p>
Storage and Reconstitution	<p>This product should be initially thawed on ice, aliquoted into working portions and immediately frozen to -80°C. At no time should this product be allowed to sit at room temperature prior to use. A working aliquot should be removed from -80°C and thawed on ice. Thawed material should not be allowed to stand at room temperature. Repeated freeze-thawing is not recommended as it will</p>

(Formulation)

decrease the activity. Aliquoted samples must be kept at -80°C and used within two months for best results.

rec HIV 1 PR in 10 mM Na Phosphate pH 6.5,
1 mM EDTA, 10% glycerol, 0.05% BME, 50-100 mM NaCl.
DO NOT LYOPHILIZE !

Latest update: March 21, 2011

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