

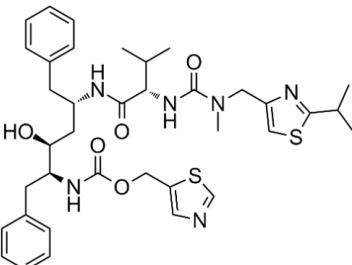
**Ritonavir**

**Catalog No. HRP-4622**

This reagent is the property of the U.S. Government.

**Product Description:**

Ritonavir (brand name: Norvir®; also referred to as A-84538 and ABT-538) is a peptidomimetic inhibitor of both human immunodeficiency virus (HIV) type 1 and type 2 proteases. Inhibition of HIV proteases renders the enzyme incapable of processing the gag-pol polypeptide precursor, which leads to the production of non-infectious immature HIV particles.

<b>Chemical Name</b>	10-Hydroxy-2-methyl-5-(1-methylethyl)-1-[2-(1-methylethyl)-4-thiazolyl]-3,6-dioxo-8,11-bis(phenylmethyl)-2,4,7,12-tetraaztridecan-13-oic acid, 5-thiazolylmethyl ester, [5S-(5R*,8R*,10R*,11R*)]
<b>Structure</b>	
<b>Formula</b>	C <sub>37</sub> H <sub>48</sub> N <sub>6</sub> O <sub>5</sub> S <sub>2</sub>
<b>Molecular Weight</b>	720.94
<b>CAS Number</b>	155213-67-5

**Lot: 70067169**

**Receipt Date: 10APR2024**

All information below was provided by AK Scientific, Inc. for the bulk material (AK Scientific, Inc. lot TL34750).

TEST	SPECIFICATIONS	RESULTS
<b>Appearance</b>	White to off-white powder	White powder
<b>Content per Vial</b>	20.0 mg ± 0.3 mg	20.0 mg ± 0.3 mg
<b>FT-IR</b>	Spectrum consistent with structure	Spectrum consistent with structure
<b>Heavy Metals</b>	≤ 20 ppm	< 20 ppm
<b>Mass Spectrometry</b>	Spectrum consistent with structure	Spectrum consistent with structure
<b>Purity (HPLC)</b>	≥ 98%	98.7%
<b>Residue on Ignition</b>	≤ 0.2%	0.04%
<b>Residual Solvents</b>		
2-Propanol	≤ 500 ppm	120 ppm
Ethyl acetate	≤ 1,000 ppm	460 ppm
Heptane	≤ 500 ppm	340 ppm
Methanol	≤ 500 ppm	160 ppm
MTBE	≤ 500 ppm	Not detected
Tetrahydrofuran	≤ 300 ppm	130 ppm
Toluene	≤ 300 ppm	80 ppm

TEST	SPECIFICATIONS	RESULTS
Specific Rotation (c=2, MeOH)	+7° ~ +10°	+8.4°
Water	≤ 0.5%	0.06%

/Kenneth R. Crawford/

Kenneth R. Crawford

23 MAY 2024

Lead Technical Writer or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® and the contributor to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.



**HIV REAGENT PROGRAM**

