

Product Data Sheet

Product Name: PNU-103017

Cat. No.: GC32327

Chemical Properties

Cas. No. 166335-18-8

SMILES O=S(C1=CC=C(C#N)C=C1)(NC2=CC=CC(C(C3CC3)C4=C(O)C(CCCCCC5)=C5OC4=O)=C2)=O

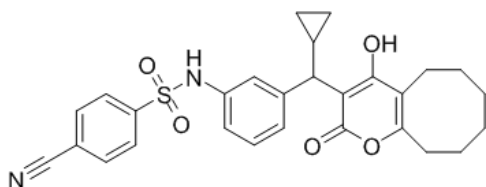
Formula $C_{28}H_{28}N_2O_5S$ M.Wt 504.6

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Protocol

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Animal experiment: Rats and dogs are used in this study. In preclinical toxicology studies, dogs (three per gender per dose) receive 50, 100, 200, or 250 mg/kg/day, and rats (three per gender per dose) receive 80, 240, or 720 mg/kg/day PNU-103017 in a 0.5 N sodium hydroxide aqueous solution orally, twice daily, 8 and 16 h apart, respectively, for 14 days. Sequential blood specimens are collected at 0 (prior to the first daily dosing), 1, 2, 4, 8 (prior to the second daily dosing), 9, 10, 12, 16 (for dog only), and 24 h after the first daily dosing on treatment days 1, 8, and 14 for the dog and rat studies. The samples are placed into heparinized tubes, and the plasma is separated by centrifugation and stored at or below -10°C until analysis[1].

References:

[1]. Williams MG, et al. Stereospecific determination of an HIV aspartyl protease inhibitor, PNU-103017, in rat, dog and human plasma using a Pirkle-concept high-performance liquid chromatographic column.

Background

PNU-103017 is an HIV protease inhibitor.

PNU-103017 is a selective HIV aspartyl protease inhibitor under evaluation as a potential oral treatment of Acquired Immunodeficiency Diseases. PNU-103017 is a racemic mixture of two enantiomers, designated PNU-103264 (R-) and PNU-103265 (S-). The C_{max} ($P \leq 0.0349$), C_{min} ($P \leq 0.0168$), and C_{av} ($P \leq 0.0118$) are significantly higher for the (R)- than the (S)-enantiomer, showing enantioselective pharmacokinetics of PNU-103017 in the dog[1].

[1]. Williams MG, et al. Stereospecific determination of an HIV aspartyl protease inhibitor, PNU-103017, in rat, dog and human plasma using a Pirkle-concept high-performance liquid chromatographic column.

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