

Product Data Sheet

Product Name: Ro 90-7501

Cat. No.: GC10425

Chemical Properties

Cas. No. 293762-45-5

Chemical Name 2'-(4-aminophenyl)-1H,3'H-[2,5'-bibenzo[d]imidazol]-6-amine

SMILES NC1=CC=C2N=C(C3=CC=C4N=C(C(C=C5)=CC=C5N)NC4=C3)NC2=C1

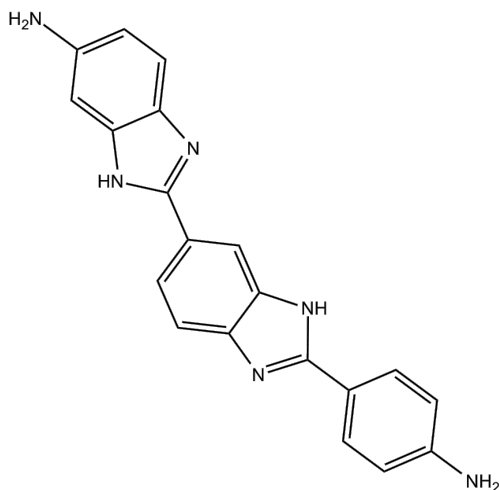
Formula $C_{20}H_{16}N_6$ M.Wt 340.39

Solubility 15 mg/ml in DMF, 10 mg/ml in DMSO, 2 mg/ml in Ethanol 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



Background

Ro 90-7501 is a bi-benzimidazole compound that was first found to retard the formation of mature amyloid β 42 fibrils in a cell-based assay.[1] Instead, extended polymeric sheets and fibrillary intermediates of amyloid β 42 accumulated in response to Ro 90-7501 treatment, resulting in reduced

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cytotoxicity ($EC_{50} = 2 \mu M$).¹ More recently, Ro 90-7501 was shown to modulate signaling in cells stimulated with polyinosinic-polycytidylic acid (poly(I:C); a toll-like receptor 3 (TLR3), and RIG-1-like receptor agonist.[2] Ro 90-7501 (10 μM) enhanced poly(I:C)-induced IFN- β expression, decreased NF- κB activation, and amplified the suppression of vesiculastomatitis virus replication by poly(I:C) in HEK293 cells expressing TLR3.[2]

Reference

- [1]. Bohrmann, B., Adrian, M., Dubochet, J., et al. Self-assembly of β amyloid 42 is retarded by small molecular ligands at the stage of structural intermediates. *Journal of Structural Biology* 130(2-3), 232-246 (2000).
- [2]. Guo, F., Mead, J., Aliya, N., et al. RO 90-7501 enhances TLR3 and RLR agonist induced antiviral response. *PLoS One* 7(10), (2012).

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