

Product Data Sheet

Product Name: AA26-9
Cat. No.: GC31355

Chemical Properties

Cas. No. 1312782-34-5

SMILES O=C(N1N=NC=C1)N2CCCC2

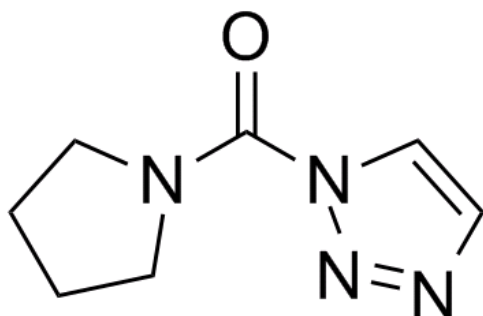
Formula C7H10N4O M.Wt 166.18

Solubility DMSO : 100 mg/mL (601.76 mM) 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

Cell experiment: Cells are cultured with 20 µM inhibitor AA26-9 or DMSO as a control for 4 h, lysed, separated into soluble and analyzed by competitive gel-based ABPP[1].

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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References:

[1]. Adibekian A, et al. Click-generated triazole ureas as ultrapotent in vivo-active serine hydrolase inhibitors. Nat Chem Biol. 2011 May 15;7(7):469-78.

Background

AA26-9 is a potent and broad spectrum serine hydrolase inhibitor.

AA26-9 is synthesized based on a piperazine scaffold shown previously to inhibit serine hydrolases in the context of p-nitrophenoxycarbamate. AA26-9-inhibited enzymes originated from diverse functional subclasses of serine hydrolases, including lipases/phospholipases (AADACL1, ABHD6, ESD, FAAH, PAFAH2, LYPLA3), peptidases (APEH, PRCP, CTSA), thioesterases (LYPLA1, LYPLA2), and uncharacterized enzymes (ABHD11, ABHD13, BAT5). AA26-9 inhibits one of its enzyme targets LYPLA1 by covalent carbamoylation of the enzyme's serine nucleophile (S114). AA26-9 inhibits 1/3 of the over 40 serine hydrolase found in T-cells[1].

[1]. Adibekian A, et al. Click-generated triazole ureas as ultrapotent in vivo-active serine hydrolase inhibitors. Nat Chem Biol. 2011 May 15;7(7):469-78.

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