

Product Data Sheet

Product Name: BRD3308

Cat. No.: GC39551

Chemical Properties

Cas. No. 1550053-02-5

SMILES O=C(C)NC1=CC=C(C(NC2=CC=C(F)C=C2N)=O)C=C1

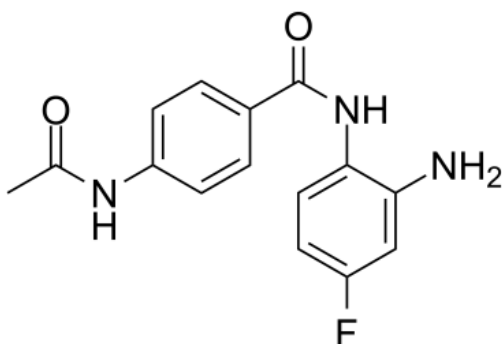
Formula $C_{15}H_{14}FN_3O_2$ M.Wt 287.29

Solubility DMSO: 250 mg/mL (870.20 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



Background

BRD3308 is a highly selective HDAC3 inhibitor with an IC₅₀ of 54 nM. BRD3308 is 23-fold selectivity for HDAC3 over HDAC1 (IC₅₀ of 1.26 μM) or HDAC2 (IC₅₀ of 1.34 μM). BRD3308 suppresses pancreatic β-cell apoptosis induced by inflammatory cytokines or glucolipotoxic stress, and increases functional insulin release. BRD3308 activates HIV-1 transcription and disrupts HIV-1 latency[1][2][3].

[1]. Barton KM, et al. Selective HDAC inhibition for the disruption of latent HIV-1 infection. PLoS One. 2014 Aug 19;9(8):e102684. [2]. Lundh M, et al. Histone deacetylase 3 inhibition improves glycaemia

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

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and insulin secretion in obese diabetic rats. Diabetes Obes Metab. 2015 Jul;17(7):703-7. [3]. Wagner FF, et al. An Isochemogenic Set of Inhibitors To Define the Therapeutic Potential of Histone Deacetylases in β -Cell Protection. ACS Chem Biol. 2016 Feb 19;11(2):363-74.

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