Product Data Sheet

Product Name: DB1976
Cat. No.: GC39627

Chemical Properties

Cas. No.	1557397-51-9		
SMILES	N=C(C1=CC=C2N=C(C3=CC=C(C4=NC5=CC=C(C(N)=N)C=C5N4)[Se]3)NC2=C1)N		
Formula	$C_{20}H_{16}N_8Se$	M.Wt	447.35
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	DB1976		

Background

DB1976 is a selenophene analog of DB270 and a potent and cell-permeable fully efficacious transcription factor PU.1 inhibitor. DB1976 potently inhibits PU.1 binding (IC50 of 10 nM) and strongly inhibits the PU.1/DNA complex (with high DB1976-ΛB affinity, KD of 12 nM) in vitro. DB1976 has apoptosis-inducing effect[1][2][3].

[1]. Munde M, et al. Structure-dependent inhibition of the ETS-family transcription factor PU.1 by novel heterocyclic diamidines. Nucleic Acids Res. 2014 Jan;42(2):1379-90. [2]. Stephens DC, et al. Pharmacologic efficacy of PU.1 inhibition by heterocyclic dications: a mechanistic analysis. Nucleic Acids Res. 2016 May 19;44(9):4005-13. [3]. Antony-DebrÉ I, et al. Pharmacological inhibition of the transcription factor PU.1 in leukemia. J Clin Invest. 2017 Dec 1;127(12):4297-4313.

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