

Product Data Sheet

Product Name: NI-42
Cat. No.: GC36734

Chemical Properties

Cas. No. 1884640-99-6

SMILES O=S(C1=CC=C(C#N)C=C1)(NC2=CC=C(N(C)C(C(C)=C3)=O)C3=C2)=O

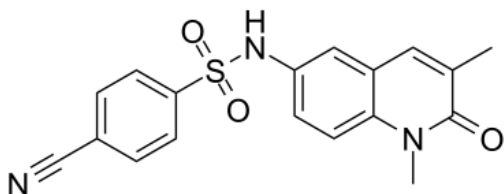
Formula $C_{18}H_{15}N_3O_3S$ M.Wt 353.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:3): 0.25 mg/ml
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

NI-42 (compound 13-d), a structurally orthogonal chemical probe for the BRPFs, is a biased, potent inhibitor of the BRD of the BRPFs (IC₅₀s of BRPF1/2/3=7.9/48/260 nM; K_ds of BRPF1/2/3=40/210/940 nM) with excellent selectivity over nonclass IV BRD proteins[1]. BRPF1|7.9 nM (IC₅₀)|BRPF2|48 nM (IC₅₀)|BRPF3|260 nM (IC₅₀)|BRPF1|40 nM (K_d)|BRPF2|210 nM (K_d)|BRPF3|940 nM (K_d)|BRD4 (BD1)|4500 nM (IC₅₀)|BRD7|82 nM (IC₅₀)|BRD9|310 nM

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

(IC50)|BRD9|1130 nM (Kd)

NI-42 shows IC50s of 82, 310, and 4500 nM for BRD7, BRD9, and BRD4 (BD1), respectively, and has a Kd of 1130 nM for BRD9[1].

[1]. Igoe N, et al. Design of a Biased Potent Small Molecule Inhibitor of the Bromodomain and PHD Finger-Containing (BRPF) Proteins Suitable for Cellular and in Vivo Studies. J Med Chem. 2017 Jan 26;60(2):668-680.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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