

Product Data Sheet

Product Name: UNC-2170

Cat. No.: GC63792

Chemical Properties

Cas. No. 1648707-58-7

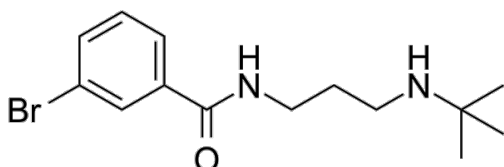
Formula C₁₄H₂₁BrN₂O M.Wt 313.23

Solubility Methanol : 125 mg/mL (399.07 mM; Need ultrasonic)|DMSO : 100 mg/mL (319.25 mM; Need ultrasonic) Storage 4°C, protect from light

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

UNC-2170 is a functionally active, fragment-like ligand for 53BP1 (IC₅₀=29 μM; K_d=22 μM). UNC-2170 shows at least 17-fold selectivity for 53BP1 as compared to nine other methyl-lysine (Kme) reader proteins. 53BP1 is a Kme binding protein that plays a central role in DNA Damage Repair (DDR) pathways and is recruited to sites of double-strand breaks (DSB)[1].

UNC-2170 (500 μM) results in a significant increase in soluble 53BP1 as compared to untreated

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

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lysates or lysates treated with UNC2892, the negative control compound. UNC-2170 (30-100 μ M; naive splenocytes cultured with LPS and IL-4 for 3.5 days) clearly phenocopies the reduction in CSR seen in 53BP1 mutant B cells[1].

[1]. Perfetti MT, et al. Identification of a fragment-like small molecule ligand for the methyl-lysine binding protein, 53BP1. ACS Chem Biol. 2015;10(4):1072-1081.

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