Product Data Sheet

Product Name: BMS-1166-N-piperidine-COOH
Cat. No.: GC63536

Chemical Properties

Cas. No.	2447066-00-2		
Formula	$C_{37}H_{35}ClN_2O_6$	M.Wt	639.14
Solubility		Storage	Store at -20°C, sealed storage, away from moisture and light
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	BMS-1166-N-piperidine-COOH		

Background

BMS-1166-N-piperidine-COOH, the BMS-1166-based moiety, binds to E3 ligase ligand via a linker to form PROTAC PD-1/PD-L1 degrader-1 to degrade PD-1/PD-L1[1]. BMS-1166 is a potent PD-1/PD-L1 interaction inhibitor with an IC50 of 1.4 nM. BMS-1166 antagonizes the inhibitory effect of PD-1/PD-L1 immune checkpoint on T cell activation[2].

[1]. Binbin Cheng, et al. Discovery of Novel Resorcinol Diphenyl Ether-Based PROTAC-like Molecules as Dual Inhibitors and Degraders of PD-L1. Eur J Med Chem. 2020 Aug 1;199:112377.
[2]. Guzik K, et al. Small-Molecule Inhibitors of the Programmed Cell Death-1/Programmed Death-Ligand 1 (PD-1/PD-L1) Interaction via Transiently Induced Protein States and Dimerization of PD-L1. J Med Chem. 2017 Jul 13;60(13):5857-5867.

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