Product Data Sheet

Product Name: BMS-1166 hydrochloride
Cat. No.: GC38131

Chemical Properties

Cas. No.	2113650-05-6		
SMILES	O=C(O)[C@@H]1N(CC2=CC(Cl)=C(OCC3=CC=CC(C4=CC=C(OCCO5)C5=C4)=C3C)C=C2OCC6=CC=CC(C#N)=C6)C[C@H](O)C1.Cl		
Formula	$C_{36}H_{34}Cl_2N_2O_7$	M.Wt	677.57
Solubility	DMSO : ≥ 100 mg/mL (147.59 mM)	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	BMS-1166 hydrochloride		

Background

BMS 1166 is an inhibitor of the protein-protein interaction between programmed cell death 1 (PD-1) and its ligand PD-L1 that has an IC_{50} value of 1.4 nM in a homologous time-resolved fluorescence (HTRF) assay.[1] It increases the activation of Jurkat cells expressing PD-1 in co-culture with CHO cells expressing PD-L1 (EC_{50} = 276 nM in a reporter assay).[2]

1.Guzik, K., Zak, K.M., Grudnik, P., 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-L1J. Med. Chem.60(13)5857-5867(2017)
2.Skalniak, L., Zak, K.M., Guzik, K., et al.Small-molecule inhibitors of PD-1/PD-L1 immune checkpoint alleviate the PD-L1-induced exhaustion of T-cellsOncotarget8(42)72167-72181(2017)

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