

Product Data Sheet

Product Name: TCS PIM-1 1

Cat. No.: GC17178

Chemical Properties

Cas. No. 491871-58-0

Chemical Name 6-(5-bromo-2-hydroxyphenyl)-2-oxo-4-phenyl-1,2-dihydropyridine-3-carbonitrile

SMILES O=C1C(C#N)=C(C2=CC=CC=C2)C=C(C3=C(O)C=CC(Br)=C3)N1

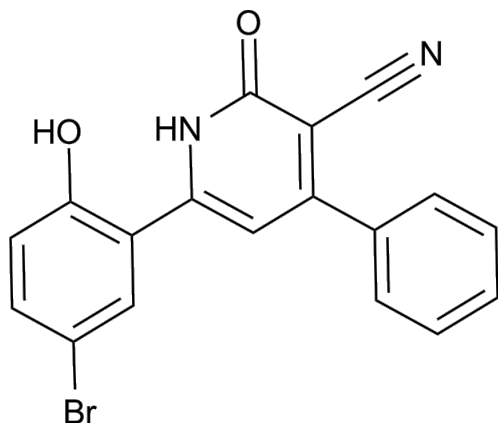
Formula $C_{18}H_{11}BrN_2O_2$ M.Wt 367.2

Solubility $\geq 12.8\text{mg/mL}$ in DMSO Storage Store at 4°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

TCS PIM-1 1 is a selective inhibitor of Pim-1 with IC50 value of 50 nM [1].

Pim-1 is a proto-oncogene serine/threonine-protein kinase and plays an important role in cell cycle progression, apoptosis, transcriptional activation and more general signal transduction pathways. It has been shown that Pim-1 over-expression is correlated with a variety of human cancers [2].

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

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TCS PIM-1 1 is a potent Pim-1 inhibitor and has a better selectivity to Pim-1 than to Pim-2. It was revealed that TCS PIM-1 1 was the most potent inhibitor of Pim-1 by outlining the crystal structure and it was also shown that TCS PIM-1 1 had better inhibitory activity to Pim-1 compared with Pim-2 [1].

References:

- [1]. Cheney, I.W., et al., Identification and structure-activity relationships of substituted pyridones as inhibitors of Pim-1 kinase. Bioorg Med Chem Lett, 2007. 17(6): p. 1679-83.
- [2]. Cen, B., et al., The Pim-1 protein kinase is an important regulator of MET receptor tyrosine kinase levels and signaling. Mol Cell Biol, 2014. 34(13): p. 2517-32.

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