

Product Data Sheet

Product Name: CB-1158

Cat. No.: GC49664

Chemical Properties

Cas. No. 1345810-21-0

SMILES C1C=CC(Cl)=C(CN2CCC(C(C(O)=O)(N)CCCCB(O)O)CC2)C=C1

Formula C₁₈H₂₇BCl₂N₂O₄

M.Wt 417.1

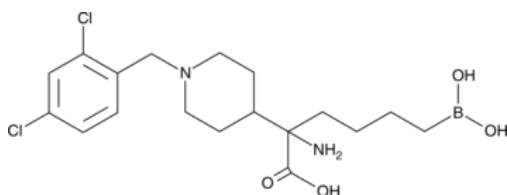
Solubility DMSO: soluble

Storage -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

CB-1158 is an inhibitor of arginase I and II (IC₅₀s = 0.086 and 0.296 μM for the human enzymes, respectively).¹ It is selective for arginase I and II over neuronal nitric oxide synthase (nNOS), endothelial NOS (eNOS), and inducible NOS (iNOS; IC₅₀s = >50 μM for all). CB-1158 reverses inhibition of T cell proliferation induced by granulocytes *in vitro* (IC₅₀ = 0.204 μM). It reduces tumor growth in a CT26 murine colon cancer model when administered at a dose of 100 mg/kg twice per day.

1. Steggerda, S.M., Bennett, M.K., Chen, J., et al. Inhibition of arginase by CB-1158 blocks myeloid cell-mediated immune suppression in the tumor microenvironment. *J. Immunother. Cancer* 5(1):101 (2017)

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

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