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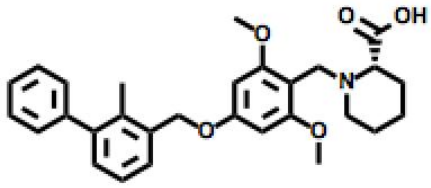
PD-1/PD-L1 Inhibitor C1

Chemical Name: (S)-1-(2,6-dimethoxy-4-((2-methyl-[1,1'-biphenyl]-3-yl)methoxy)benzyl)piperidine-2-carboxylic acid



Molecular Weight:	475.58
Formula:	$C_{29}H_{33}NO_5$
Purity:	≥98%
CAS#:	1675201-83-8
Solubility:	DMSO up to 100 mM Water up to 100 mM
Storage	Powder: 4 ºC 1 year DMSO: 4 ºC 3 months -20 ºC 1 year

Biological Activity:

PD-1/PD-L1 inhibitor C1 is a potent and selective small molecule inhibitor of the PD-1/PD-L1 protein/protein interactions with IC_{50} < 100 nM (PD-1/PD-L1 Homogenous Time-Resolved Fluorescence (HTRF) binding assay). It may potentially be useful in the treatment of cancer as well as infectious diseases such as hepatitis C. The programmed death-1/programmed death-ligand 1 (PD-1/PD-L1) interaction plays a dominant role in the suppression of T cell responses, especially in a tumor microenvironment, protecting tumor cells from lysis.

How to Use:

In vitro: PD-1/PD-L1 Inhibitor C1 was used at 10 μM final concentration in various assays.

In vivo: n/a

Reference:

1. Chupak, L.S. and Zheng, X. Compounds useful as immunomodulators. WO 2015/034820 (2015).