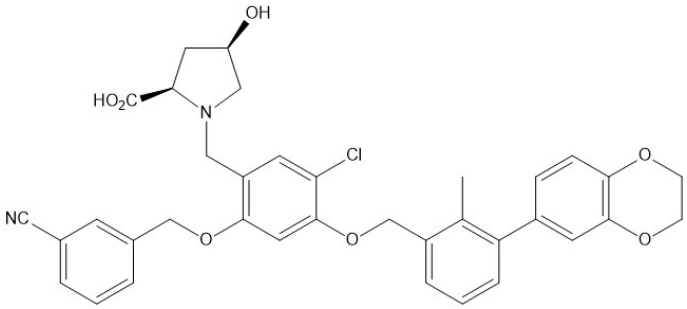
Tribioscience

BMS-1166, PD-1/PD-L1 inhibitor

Catalog	Unit
TBI4903-1MG	1 mg
TBI4903-5MG	5 mg

Product Details

Formal Name: (2R,4R)-1-[[5-Chloro-2-[(3-cyanophenyl)methoxy]-4-[[3-(2,3-dihydro-1,4-benzodioxin-6-yl)-2-methylphenyl]methoxy]phenyl]methyl]-4-hydroxypyrrolidine-2-carboxylic acid
Molecular Formula: $C_{36}H_{33}ClN_2O_7$
Formula Weight: 641.1
CAS Number: 1818314-88-3
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to at least 25 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.



Applications

PD-1/PD-L1 inhibitor

Functions

Blocks the cell surface interaction of PD-L1 with PD-1 alleviating the inhibitory effect of PD-L1 on T-cell receptor-mediated activation of T-lymphocytes (IC_{50} = 1.4 nM). It suppressed growth and invasion of glioma cells and induced apoptosis in conjunction with the dual PI3K/mTOR inhibitor BEZ235. BMS-1166 reversed HEL-mediated T cell suppression in acute myeloid leukemia patients. It significantly decreased cell viability and enhanced chemotherapy-induced cytotoxicity in MDF-MB-231 and MCF-7 breast cancer models.

Application Procedures

First dissolved in DMSO (up to at least 25 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.