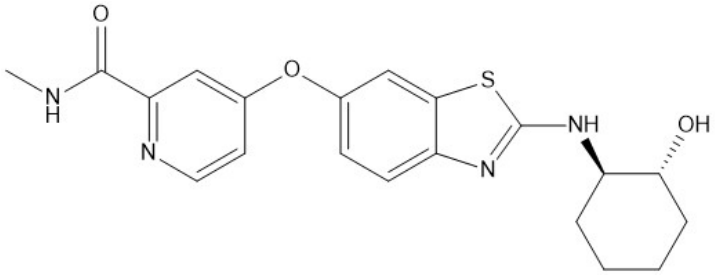
Tribioscience

BLZ945, CSF-1R inhibitor

Catalog	Unit
TBI4979-5MG	5 mg
TBI4979-25MG	25 mg

Product Details

Formal Name: 4-[[2-[[(1R,2R)-2-hydroxycyclohexyl]amino]-1,3-benzothiazol-6-yl]oxy]-N-methylpyridine-2-carboxamide
Alternate Names: Sotuletinib
Molecular Formula: $C_{20}H_{22}N_4O_3S$
Formula Weight: 398.5
CAS Number: 953769-46-5
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to at least 50 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

CSF-1R inhibitor

Functions

Potent and brain-penetrant CSF-1R inhibitor (IC_{50} = 1 nM). It displayed significant antitumor effects in glioblastoma cells by altering the polarization of tumor-associated macrophages (TAMs). BLZ945 was shown to have significant antitumor effects in various cancer models via decreasing or reprogramming myeloid suppressor cells. It reversed the epithelial to mesenchymal transition in an inflammatory breast cancer model. BLZ945 modulated the tumor microenvironment in a lung cancer model by activating cross-talk between natural killer, T, and dendritic cells promoting antitumor immunity.

Application Procedures

First dissolved in DMSO (up to at least 50 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.