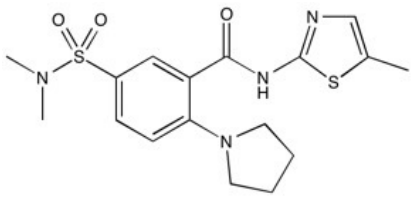
Tribioscience

NGI-1, Oligosaccharyltransferase (OST) inhibitor

Catalog	Unit
TBI4291-10MG	10 mg
TBI4291-50MG	50 mg

Product Details

Formal Name: 5-(Dimethylsulfamoyl)-N-(5-methyl-1,3-thiazol-2-yl)-2-(pyrrolidin-1-yl)benzamide
Alternate Names: ML414
Molecular Formula: $C_{17}H_{22}N_4O_3S_2$
Formula Weight: 394.51
CAS Number: 790702-57-7
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 5 mg/ml)
Storage: -20°C
Stability: ≥ 1 year.



Applications

Oligosaccharyltransferase (OST) inhibitor

Functions

NGI-1 is a cell-permeable inhibitor of oligosaccharyltransferase (OST) – IC50 = 1.1 µM. It blocks cell-surface localization and signaling of the epidermal growth factor receptor (EGFR) glycoprotein and selectively arrests proliferation only in cells dependent on EGFR for survival. NGI-1 caused G1 arrest and senescence in RTK-dependent NSCLC cells (PC9, HCC827, H3255,H1581). NGI-1 displays antiviral behavior against various flaviviruses (Dengue, West Nile, Yellow fever and Zika). It also was able to overcome resistance to EGFR tyrosine kinase inhibitors in mutant NSCLC cells and enhance radiosensitivity and cytotoxic effects of chemotherapy in glioma cells with high levels of RTK activation.

Application Procedures

First dissolved in DMSO (up to 5 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

For research use only.

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