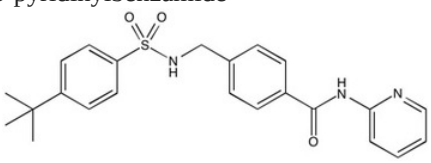
Tribioscience

STF-31, NAMPT inhibitor

Catalog	Unit
TBI4570-10MG	10 mg
TBI4570-50MG	50 mg

Product Details

Formal Name: 4-[[[[4-(1,1-Dimethylethyl)phenyl]sulfonyl]amino]methyl]-N-3-pyridinylbenzamide
Molecular Formula: $C_{23}H_{25}N_3O_3S$
Formula Weight: 423.53
CAS Number: 724741-75-7
Purity: >98%
Formulation: powder
Solubility: Soluble in DMSO (up to 25 mg/ml).
Storage: -20°C
Stability: ≥ 1 year.



Applications

NAMPT inhibitor

Functions

STF31 is an inhibitor of glucose transporter 1 (GLUT1; IC50 = 1 μM) and NAMPT3. Inhibition of glucose transporters to target It has been shown to kill renal cell carcinoma cells (the majority of which lack the von Hippel-Lindau suppressor gene) without toxicity to normal cells. The target of STF31 anti-tumor activity has recently been questioned via use of large-scale cancer cell-line profiling. This profiling indicated that nicotinamide phosphoribosyltransferase (NAMPT) was in fact the target of STF31. The inhibition of NAMPT by STF31 was confirmed via biochemical assay against recombinant NAMPT. The ability of STF31 to inhibit NAMPT had been previously displayed (IC50 = 19 nM).

Application Procedures

First dissolved in DMSO (up to 25 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.