

Catalog	Unit
TBI4628-5MG	5 mg
TBI4628-25MG	25 mg

Product Details

Formal Name: N-[2-[3-(Piperazin-1-ylmethyl)imidazo[2,1-b][1,3]thiazol-6-yl]phenyl]quinoxaline-2-carboxamide, hydrochloride

Alternate Names: SIRT 1933

Molecular Formula: C₂₅H₂₃N₇OS·HCl

Formula Weight: 506.00

CAS Number: 1001645-58-4

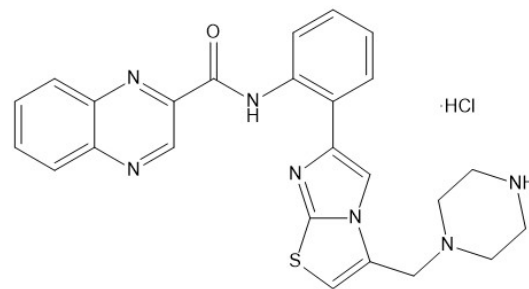
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to at least 25 mg/ml)

Storage: -20°C

Stability: ≥ 1 year.



Applications

SIRT1 activator

Functions

Sirtuin1 (SIRT1) activator, EC1.5 = 0.16 μM, that reduces glucose levels and hyperinsulinemia in mouse and rat models of obesity. SRT1720 represses expression of circadian clock genes in vitro and in vivo. It inhibits vascular inflammation caused by angiotensin II-induced atherosclerosis and reverses abnormal mitochondrial function in primary neurons exposed to 20-HETE. Ameliorates hypoxic injury in pancreatic β-cells, and enhances ferroptosis in head and neck cancer cells.

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.