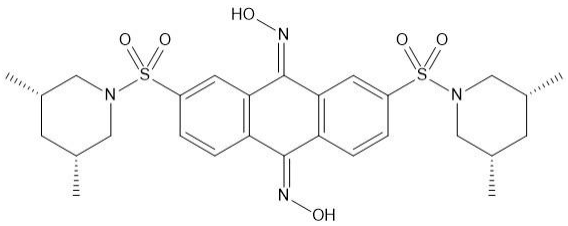
Tribioscience

Tegavivint, ß-Catenin pathway inhibitor

Catalog	Unit
TBI4642-5MG	5 mg
TBI4642-25MG	25 mg

Product Details

Formal Name: rel-2,7-Bis[[(3R,5S)-3,5-dimethylpiperidin-1-yl]sulfonyl]antracene-9,10-dione dioxime
Alternate Names: BC2059; Tegatrabetan
Molecular Formula: $C_{28}H_{36}N_4O_6S_2$
Formula Weight: 588.7
CAS Number: 1227637-23-1
Purity: >98%
Formulation: Powder
Solubility: Soluble in DMSO (up to at least 25 mg/ml)
Storage: -20°C
Stability: ≥ 2 years.



Applications

ß-Catenin pathway inhibitor

Functions

Potent inhibitor (IC_{50} = <10 nM) of the ß-catenin pathway. Active in vitro in multiple cancer cells with nanomolar potency. Displayed efficacy in mouse models of acute myeloid leukemia, multiple myeloma, and mantle cell lymphoma. It inhibits the ß-catenin pathway in a unique way by selectively binding to Transducin Beta-like related protein 1 (TBLR1) leading to displacement of ß-catenin from the TBL1/ß-catenin complex. This interaction does not effect Notch, Sonic Hedgehog, or Hippo signaling pathways. Promotes a lipid-dependent nonapoptotic cell death that is dependent on the enzyme trans-2,3-enoyl-CoA reductase (TECR).

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.