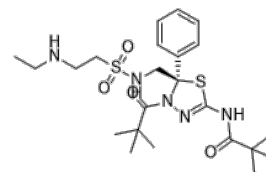


Product Name : Litronesib
Cat. No. : PC-27673
CAS No. : 910634-41-2
Molecular Formula : C₂₃H₃₇N₅O₄S₂
Molecular Weight : 511.70
Target : Kinesin
Solubility : 10 mM in DMSO



Biological Activity

Litronesib ((R)-Litronesib, LY2523355) is a potent, selective and allosteric inhibitor of mitosis-specific kinesin **Eg5 (Kif11**, Kinesin Spindle Protein, **KSP**), inhibits microtubule (MT)-stimulated Eg5 ATPase activity with IC₅₀ of 26 nM.

Litronesib ((R)-Litronesib, LY2523355) kills cancer cells during mitotic arrest, causes a dose-dependent increase of cells with 4N DNA content.

Litronesib ((R)-Litronesib, LY2523355) also inhibits Eg5 localization to the mitotic spindle.

Litronesib ((R)-Litronesib, LY2523355) shows potent, broad-spectrum anticancer activity in vitro at low concentrations (IC₅₀ values ranging from 0.4 nM to 14 nM) against a panel of 21 cancer cell lines, SAC has an essential role in mitotic arrest and subsequent cell killing by Litronesib.

Litronesib ((R)-Litronesib, LY2523355) has broad-spectrum antitumor activity in vivo, which is associated with mitotic arrest and death of cancer cells.

References

Ye XS, et al. *Mol Cancer Ther.* 2015 Nov;14(11):2463-72.

Wakui H, et al. *Cancer Chemother Pharmacol.* 2014 Jul;74(1):15-23.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com