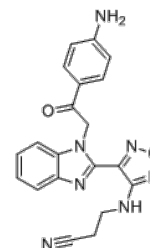


Product Name : Avanbulin
Cat. No. : PC-36086
CAS No. : 798577-91-0
Molecular Formula : C₂₀H₁₇N₇O₂
Molecular Weight : 387.403
Target : Microtubule/Tubulin
Solubility : 10 mM in DMSO



Biological Activity

Avanbulin (BAL27862, BAL-27862) is a novel microtubule-destabilizing agent that potently inhibits **tubulin assembly** at 37°C with IC₅₀ of 1.4 μM in tubulin-binding assays.

Avanbulin (BAL27862) potently binds to unassembled tubulin with a stoichiometry of 1 mol/mol tubulin and a dissociation constant of 244±30 nM, BAL27862 bound to tubulin independently of vinblastine, without the formation of tubulin oligomers.

Avanbulin (BAL27862) inhibits tumor cell proliferation through activation of the spindle assembly checkpoint, inhibits EB1-dependent migration and invasion and promotes differentiation of glioblastoma stem-like cells both in vitro and in vivo.

References

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 Kolb EA, et al. *Pediatr Blood Cancer.* 2015 Jun;62(6):1106-9.
 Bergès R, et al. *Mol Cancer Ther.* 2016 Nov;15(11):2740-2749.
 Dudka D, et al. *Nat Commun.* 2018 May 23;9(1):2042.

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

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