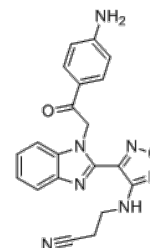


**Product Name** : Avanbulin  
**Cat. No.** : PC-36086  
**CAS No.** : 798577-91-0  
**Molecular Formula** : C<sub>20</sub>H<sub>17</sub>N<sub>7</sub>O<sub>2</sub>  
**Molecular Weight** : 387.403  
**Target** : Microtubule/Tubulin  
**Solubility** : 10 mM in DMSO



## Biological Activity

Avanbulin (BAL27862, BAL-27862) is a novel microtubule-destabilizing agent that potently inhibits **tubulin assembly** at 37°C with IC<sub>50</sub> 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

- Prota AE, et al. J Mol Biol. 2014 Apr 17;426(8):1848-60.  
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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