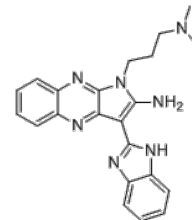


**Product Name** : INI-43  
**Cat. No.** : PC-72015  
**CAS No.** : 881046-01-1  
**Molecular Formula** : C<sub>22</sub>H<sub>23</sub>N<sub>7</sub>  
**Molecular Weight** : 385.475  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

INI-43 (Inhibitor of Nuclear Import-43, JRMS) is a small molecule that binds nuclear import receptor Karyopherin beta 1 (**Kpnβ1**), inhibits Kpnβ1-mediated nuclear import with anti-cancer activity.

INI-43 significantly diminished NFAT activation in a dose-dependent manner (IC<sub>50</sub>=9.3 μM in HeLa cells).

INI-43 prevents transcription factor and Kpnβ1 access to the nucleus, and INI-43 treatment results in cancer cell death via a G2/M cell cycle arrest.

INI-43 treatment induces cancer cell cycle changes and apoptosis and inhibits tumour growth in vivo.

## References

Pauline J van der Watt, et al. *Mol Cancer Ther.* 2016 Apr;15(4):560-73.

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

E-mail: tech@probechem.com