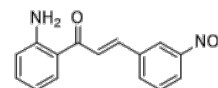


**Product Name** : TMBIM6 inhibitor BIA  
**Cat. No.** : PC-24226  
**CAS No.** : 134271-74-2  
**Molecular Formula** : C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 268.27  
**Target** : mTOR  
**Solubility** : 10 mM in DMSO



CAS: 134271-74-2

## Biological Activity

TMBIM6 inhibitor BIA is a specific inhibitor of TMBIM6 (BAX inhibitor-1, BI-1), prevents TMBIM6 binding to mTORC2, decreases mTORC2 activity, also suppresses ER release of Ca<sup>2+</sup> from TMBIM6, has broad anticancer activities. BIA decreases the binding between TMBIM6 and mTORC2 inhibits proliferation and cell viability of MCF7 and MDA-MB-231 cells highly expressed TMBIM6. BIA reduced cell proliferation by inducing the dissociation of TMBIM6 from mTORC2 and ribosome, result in cell death.

BIA suppresses ER release of Ca<sup>2+</sup> from TMBIM6.

BIA decreases cell migration in HT1080, MCF7, MDA-MB-231, and SKBR3 cells, not TMBIM6 KO HT1080 cells.

BIA (1 mg/kg BIA, vehicle (0.1% DMSO with saline), 5 days per week during 25 days) markedly impaired cell-driven tumor growth in HT1080 and MDA-MB-231 xenograft mice.

TMBIM6, a member of the transmembrane BI-1 motif-containing family of proteins, is overexpressed in many cancer types.

## References

Kim HK, et al. Nat Commun. 2020 Aug 11;11(1):4012.

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

E-mail: tech@probechem.com