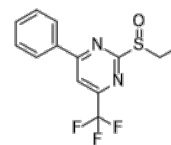


Product Name : Ibetazol
Cat. No. : PC-23494
CAS No. :
Molecular Formula : C₁₃H₁₁F₃N₂OS
Molecular Weight : 300.30
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Ibetazol is novel specific small molecule inhibitor of **importin β1** (KPNB1)-mediated nuclear import with EC₅₀ of 6.3 μM in phenotypic importin α1 translocation assays, binds to cysteine 585 of importin β1.

Ibetazol interacts with cysteine 585 in importin β1, and thereby effectively prohibits both direct and adaptor (importin α) protein-dependent importin β1-mediated nuclear import.

Ibetazol has EC₅₀ of 6.3 μM in phenotypic importin α1 translocation assays, with no cytotoxicity in HEK293T cells.

Ibetazol specifically inhibit importin β1-dependent import (the direct importin β1 dependent cargo SREBP1, importin α1, and importin β1-importin α cargos).

References

Vercruysse T, et al. *Commun Biol.* 2024 Nov 23;7(1):1560.

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

E-mail: tech@probechem.com