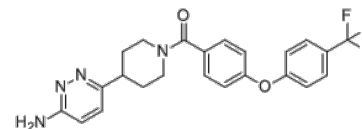


**Product Name** : BI-749327  
**Cat. No.** : PC-72565  
**CAS No.** : 2361241-23-6  
**Molecular Formula** : C<sub>23</sub>H<sub>21</sub>F<sub>3</sub>N<sub>4</sub>O<sub>2</sub>  
**Molecular Weight** : 442.442  
**Target** : TRP Channel  
**Solubility** : 10 mM in DMSO



## Biological Activity

BI-749327 (BI 749327) is a potent, selective orally bioavailable **TRPC6** antagonist (blocker) with IC<sub>50</sub> of 13/19/15 nM for mouse/human/guinea pig TRPC6, respectively.

BI-749327 displays 85- and 42-fold selectivity over the most closely related channels, TRPC3 and TRPC7, minimally inhibits TRPC5 (>700-fold selective, >500-fold TRPC6 selectivity versus human TRPM8, TRPV1, TRPA1, and Nav1.5 and >150-fold selectivity against human Kv11.1 (hERG).

BI 749327 suppresses NFAT activation in HEK293T cells expressing wild-type or gain-of-function TRPC6 mutants (P112Q, M132T, R175Q, R895C, and R895L) and blocks associated signaling and expression of prohypertrophic genes in isolated myocytes.

BI 749327 (30 mg/kg/day) improves left heart function, reduces volume/mass ratio, and blunts expression of profibrotic genes and interstitial fibrosis in mice.

BI 749327 dose dependently reduces renal fibrosis and associated gene expression in mice with unilateral ureteral obstruction.

## References

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Jain PP, et al. *Am J Physiol Lung Cell Mol Physiol.* 2021 Dec 1;321(6):L1161-L1182.

Brian Leei Lin, et al. *Proc Natl Acad Sci U S A.* 2019 May 14;116(20):10156-10161.

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

E-mail: tech@probechem.com