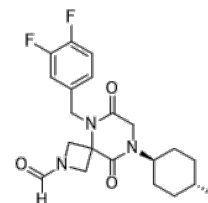


Product Name : CK-586
Cat. No. : PC-22762
CAS No. : 2830607-59-3
Molecular Formula : C₂₁H₂₅F₂N₃O₃
Molecular Weight : 405.45
Target : Myosin
Solubility : 10 mM in DMSO



CAS: 2830607-59-3

Biological Activity

CK-4021586 (Ulacamten, CK-586) is a potent, selective and oral **cardiac myosin** inhibitor, inhibits the ATPase activity of two-headed heavy meromyosin (HMM) but not single-headed subfragment-1.

CK-586 is a partial inhibitor of cardiac myofibrillar ATPase activity (EC₅₀=2.9 μM) that requires the regulatory light chain. In preclinical models, CK-586 reduced cardiac hypercontractility by decreasing the number of active myosin cross-bridges during cardiac contraction thereby reducing the contractile force, without effect on calcium transients.

References

Victor N Rivas, et al. **Sci Rep.** 2024 May 27;14(1):12038.

Saswata Sankar Sarkar, et al. Biophys J, VOLUME 122, ISSUE 3, SUPPLEMENT 1, 122A, FEBRUARY 10, 2023

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

E-mail: tech@probechem.com