

Product Datasheet

Ulcamten

Catalog No. **BP-00963** · CAS **2830607-59-3** · Form **free base** · Physical state **solid** · Color **white to off-white** · Version **1.0** · Revision **2026-09-14**

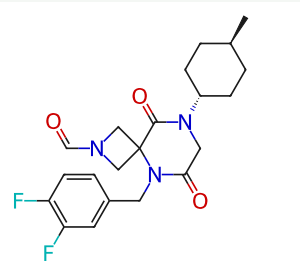
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Target Myosin	Research area Cardiovascular Disease
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Molecular formula **C₂₁H₂₅F₂N₃O₃**

Molecular weight **405.4383**

STRUCTURE



DESCRIPTION

CK-586(Ulcamten; CK-4021586) is an inhibitor of cardiac myosin used to treat obstructive hypertrophic cardiomyopathy (oHCM). It effectively reduces left ventricular outflow tract obstruction (LVOTO) in a dose-dependent manner.

BIOLOGICAL ACTIVITY

In Vitro

Ulcamten (5 µM) inhibits fractional shortening by >80% in electrically-paced adult rat ventricular cardiomyocytes without altering the calcium transient.

In Vivo

Ulcamten (2-15 mg/kg; p.o.; single dose) safely and dose-dependently ameliorates left ventricular outflow tract obstruction, reduces LV systolic function, and increases systolic LV chamber size in purpose-bred cats with naturally occurring obstructive hypertrophic cardiomyopathy, with the greatest effects observed at 6 hours post-dose. Ulcamten reduces cardiac fractional shortening in normal Sprague-Dawley rats in a dose- and concentration-dependent manner.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Rivas VN, et al. Cardiac myosin inhibitor, CK-586, minimally reduces systolic function and ameliorates obstruction in feline hypertrophic cardiomyopathy. Sci Rep. 2024;14(1):12038. Published 2024 May 27.

[2]. Sarkar S S, et al. Preclinical characterization of CK-4021586, a new class of cardiac myosin inhibitors for the treatment of hypertrophic cardiomyopathy[J]. Biophysical Journal, 2023, 122(3): 122a.

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