

CK-963

## Chemical Properties

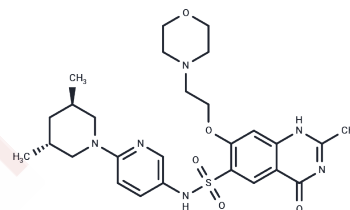
CAS No. : 2851991-63-2

Formula: C<sub>27</sub>H<sub>36</sub>N<sub>6</sub>O<sub>5</sub>S

Molecular Weight: 556.68

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	CK-963 is an activator of cardiac troponin (cTnC) with a $K_i$ of 11.5 $\mu$ M, exhibiting activity in enhancing cardiac contractility in Sprague-Dawley rats [1].
Targets(IC50)	Others, Calcium Channel
In vivo	The pharmacokinetic analysis of CK-963 (0.5 mg/kg, intravenous injection) in SD rats reveals a liver clearance rate of less than 25% and a half-life of 0.6 hours [1]. For CK963 in the SD rat model [1]: Route - i.v., Dose - 0.5 mg/kg, Solubility - 107.2 $\mu$ M, Clearance (CL) - 7.1 mL·min/kg, Half-life (T 1/2) - 0.6 h, Volume of distribution (V d) - 3.8 L/kg, Plasma protein binding (PPB) - 3.7% unbound.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7964 mL	8.9818 mL	17.9636 mL
5 mM	0.3593 mL	1.7964 mL	3.5927 mL
10 mM	0.1796 mL	0.8982 mL	1.7964 mL
50 mM	0.0359 mL	0.1796 mL	0.3593 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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