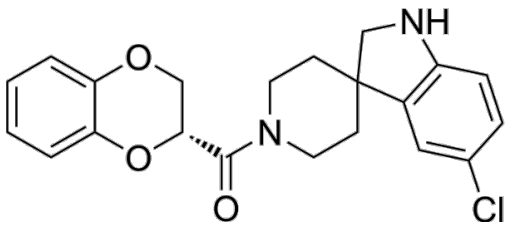
Product Data Sheet

Product Name: AM-0883
Cat. No.: GC79526

Chemical Properties

Cas. No.			
Formula	$C_{21}H_{21}ClN_2O_3$	M.Wt	384.86
Solubility		Storage	Store at 4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

AM-0883 is a TRPC6 (Transient receptor potential canonical 6) agonist (hTRPC6 EC 50 = 46 nM). AM-0083 can be used for the study of cardiac and renal diseases [1] [2].

In Vitro, AM-0883 can activate HEK293T cells WT TRPC6 (EC50 = 45.5 nM) and HEK293T N-terminal truncation mutant TRPC6 (Δ2–72) (EC50 = 90.2 nM)[1]. AM-0883 functionally activates the channel through specific residues at the S6/pore helix junction[1]. AM-0883 shows a significantly stronger activating effect on the V867T/L868T double mutant than on the wild-type channel[1].

Caution: Product has not been fully validated for medical applications. For research use only.
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References:
[1]. Bai Y, et al. Structural basis for pharmacological modulation of the TRPC6 channel. Elife. 2020 Mar 9;9:e53311.
[2]. Chubanov V, et al. Physiological functions and pharmacological targeting of transient receptor potential channels. Pharmacol Rev. 2025 Nov;77(6):100089.

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