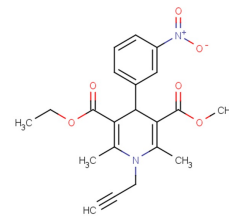


MRS1845

Chemical Properties

CAS No.:	544478-19-5
Formula:	C ₂₁ H ₂₂ N ₂ O ₆
Molecular Weight:	398.41
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	MRS1845 is a selective inhibitor of store-operated calcium (SOC) channel (IC ₅₀ of 1.7 μM).
Targets(IC ₅₀)	Ca ²⁺ channel: None
In vitro	MRS1845 (10 μM) significantly decreases SOCE and virtually abolishes the increase of SOCE following placental growth factor (PIGF) treatment[3].

Solubility Information

Solubility	DMSO: 83.33 mg/mL (209.16 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.51 mL	12.55 mL	25.1 mL
5 mM	0.502 mL	2.51 mL	5.02 mL
10 mM	0.251 mL	1.255 mL	2.51 mL
50 mM	0.05 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Harper JL, et al. Dihydropyridines as inhibitors of capacitative calcium entry in leukemic HL-60 cells. *Biochem Pharmacol.* 2003 Feb 1;65(3):329-38.
2. Ma K, et al. Phosphate-induced ORAI1 expression and store-operated Ca
3. Abdelazeem KNM, et al. Upregulation of Orai1 and STIM1 expression as well as store-operated Ca

Inhibitors · Natural Compounds · Compound Libraries

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