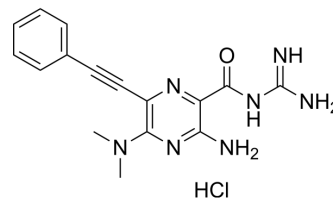


## DMA-135 hydrochloride

<b>Cat. No.:</b>	HY-145932
<b>CAS No.:</b>	2237925-62-9
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>18</sub> ClN <sub>7</sub> O
<b>Molecular Weight:</b>	359.81
<b>Target:</b>	Enterovirus
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (138.96 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.7792 mL	13.8962 mL	27.7924 mL
		5 mM	0.5558 mL	2.7792 mL	5.5585 mL
		10 mM	0.2779 mL	1.3896 mL	2.7792 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (13.90 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (13.90 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	DMA-135 hydrochloride inhibits enterovirus 71 (EV71) IRES-dependent translation and replication. DMA-135 hydrochloride binds to enterovirus 71 (EV71) SLII domain with moderately high affinity (K <sub>D</sub> = 520 nM). DMA-135 hydrochloride has no significant toxicity in cell-based studies <sup>[1]</sup> . DMA-135 (hydrochloride) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
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### REFERENCES

[1]. Davila-Calderon J, Patwardhan NN, Chiu LY, et al. IRES-targeting small molecule inhibits enterovirus 71 replication via allosteric stabilization of a ternary complex. Nat Commun. 2020;11(1):4775. Published 2020 Sep 22.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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