## MK6-83

Cat. No.:	HY-110238		
CAS No.:	1062271-24	-2	
Molecular Formula:	C <sub>16</sub> H <sub>20</sub> N <sub>2</sub> O <sub>2</sub> S	S <sub>2</sub>	
Molecular Weight:	336.47		
Target:	TRP Channe	el	
Pathway:	Membrane	Transpor	ter/Ion Channel; Neuronal Signaling
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

## SOLVENT & SOLUBILITY

Preparing Stock Solutions Please refer to the so		Mass Solvent Concentration	1 mg	5 mg	10 mg	
	1 mM	2.9720 mL	14.8602 mL	29.7203 mL		
		5 mM	0.5944 mL	2.9720 mL	5.9441 mL	
		10 mM	0.2972 mL	1.4860 mL	2.9720 mL	
	Please refer to the solu	Please refer to the solubility information to select the appropriate solvent.				
		nt one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline mg/mL (7.43 mM); Clear solution				
		ne by one: 10% DMSO >> 90% cor nL (7.43 mM); Suspended solution;				

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Description	MK6-83 is a new candidate agonist of TRPML1 with an improved efficacy and potency. MK6-83 has the potential for Mucolipidosis type IV study <sup>[1]</sup> .
In Vitro	MK6-83 2 ranging from 0.2 to 30 μM shows no signs of cytotoxicity <sup>[1]</sup> . MK6-83 appears to be significantly more efficacious on fibroblast lysosomes isolated from R403C or V446L expressing cells than on those isolated from TRPML1 <sup>-/-</sup> cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup> .

0=S=0 \_\_\_NH

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Cell Line:	Lysosomes isolated from fibroblast cell lines derived from MLIV patients carrying eith the F408D, the R403C or the V446L mutation <sup>[1]</sup> .
Concentration:	0-10 μΜ.
Incubation Time:	24 h.
Result:	Efficacious on fibroblast lysosomes isolated from R403C or V446L expressing cells. Had no significant effect on lysosomes isolated from TRPML1 <sup>-/-</sup> fibroblasts.

## REFERENCES

[1]. Cheng-Chang Chen, et al. A Small Molecule Restores Function to TRPML1 Mutant Isoforms Responsible for Mucolipidosis Type IV. Nat Commun. 2014 Aug 14;5:4681.

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

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