Product Data Sheet

TRPV4 agonist-1 free base

Cat. No.: HY-114400 CAS No.: 2314467-59-7 Molecular Formula: $C_{25}H_{22}F_{2}N_{4}O_{2}$ Molecular Weight: 448.46 Target: TRP Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: Powder -20°C 3 years In solvent -80°C 6 months

-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

DMSO: 83.33 mg/mL (185.81 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	1 mM	2.2299 mL	11.1493 mL	22.2985 mL	
	5 mM	0.4460 mL	2.2299 mL	4.4597 mL	
	10 mM	0.2230 mL	1.1149 mL	2.2299 mL	

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	TRPV4 agonist-1 free base is a transient receptor potential vanilloid 4 (TRPV4) agonist with an EC ₅₀ of 60 nM in the hTRPV4 Ca^{2+} assay ^[1] .
IC ₅₀ & Target	EC50: 60 nM (hTRPV4 hTRPV4 Ca^{2+}) $^{[1]}$
In Vitro	TRPV4 agonist-1 (Compound 36) exhibits significantly increased potency (EC _{max} : 20 nM in the SOX9 reporter assay). TRPV4 agonist-1 is inactive against TRPV1 channels ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

	otential Vanilloid 4 (TRPV4) Agon Model of Osteoarthritis. J Med C		Differentiation: Identification of Quina	zolin-
		edical applications. For resear		
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