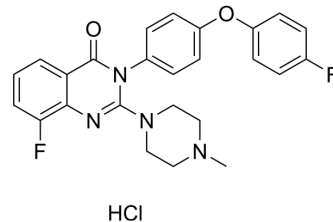


TRPV4 agonist-1

Cat. No.:	HY-114400A
CAS No.:	2314467-60-0
Molecular Formula:	C ₂₅ H ₂₃ ClF ₂ N ₄ O ₂
Molecular Weight:	484.93
Target:	TRP Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TRPV4 agonist-1 is a transient receptor potential vanilloid 4 (TRPV4) agonist with an EC ₅₀ of 60 nM in the hTRPV4 Ca ²⁺ assay[1].
IC₅₀ & Target	EC ₅₀ : 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

[1]. Atobe M, et al. Discovery of Novel Transient Receptor Potential Vanilloid 4 (TRPV4) Agonists as Regulators of Chondrogenic Differentiation: Identification of Quinazolin-4(3H)-ones and in Vivo Studies on a Surgically Induced Rat Model of Osteoarthritis. *J Med Chem.* 2019 Feb 14;62(3):1468-1483.

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

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