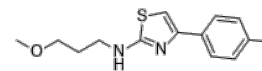


Product Name : TRPA1 agonist NMTA
Cat. No. : PC-25470
CAS No. : 3083086-77-2
Molecular Formula : C₁₄H₁₈N₂OS
Molecular Weight : 262.37
Target : TRP Channel
Solubility : 10 mM in DMSO



CAS: 3083086-77-2

Biological Activity

TRPA1 agonist NMTA is a selective, nonelectrophilic transient receptor potential ankyrin 1 (**TRPA1**) agonist with EC₅₀ of 50.05 uM for hTRPA1, induces Ca²⁺ influx and exhibits antinociceptive effects.

NMTA does not activate hTRPV1, mTRPV2, hTRPV3, hTRPV4, hTRPC6 and hTRPM8 channels individually expressed in HEK-293T cells.

NMTA (10-3000 μM) could activate mTRPA1 channels in a concentration-dependent manner (EC₅₀=314.04 uM), activated and desensitized mTRPA1 channels.

NMTA (10, 20, and 40 mg/kg, oral) demonstrates antinociceptive effects on CFA-induced inflammatory pain in mice.

References

Sun C, et al. *ACS Chem Neurosci*. 2025 Sep 3;16(17):3257-3266.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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