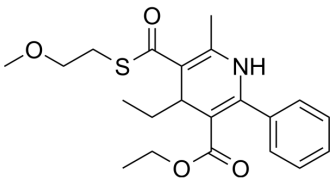
MRS 1477

Cat. No.:	HY-110145
CAS No.:	212200-21-0
Molecular Formula:	$C_{21}H_{27}NO_4S$
Molecular Weight:	389.51
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	MRS 1477, a dihydropyridine derivative, is a positive allosteric modulator of TRPV1 in the presence of capsaicin. MRS 1477 itself does not induce apoptosis, but the co-existence of MRS 1477 and capsaicin can induce apoptosis[1][2].
In Vitro	MRS1477 evokes Ca^{2+} signals in MCF7 breast cancer cells, but not in primary breast epithelial cells[1]. MRS1477 (2 μM; 72 h) with capsaicine (10 μM) induces apoptosis and increases reactive oxygen species production and caspase activity[1]. MRS1477 (2 μM) increases capsaicin-evoked TRPV1-mediated current density levels[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nazıroğlu M, et, al. Targeting breast cancer cells by MRS1477, a positive allosteric modulator of TRPV1 channels. PLoS One. 2017 Jun 22;12(6):e0179950.

[2]. Kaszas K, et, al. Small molecule positive allosteric modulation of TRPV1 activation by vanilloids and acidic pH. J Pharmacol Exp Ther. 2012 Jan;340(1):152-60.

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