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Data Sheet

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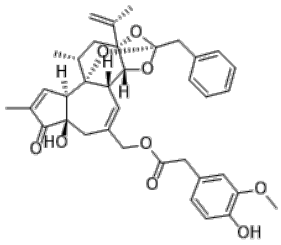
Product Name	:	Resiniferatoxin
Cat. No.	:	PC-24742
CAS No.	:	57444-62-9
Molecular Formula	:	$C_{37}H_{40}O_9$
Molecular Weight	:	628.71
Target	:	TRP Channel
Solubility	:	10 mM in DMSO



Biological Activity

Resiniferatoxin ((+)-Resiniferatoxin) is a high affinity, selective agonist of transient receptor potential vanilloid 1 (TRPV1), binds HEK293/VR1 cells and CHO/VR1 cells with affinities of 84 and 103 pM, respectively.
Resiniferatoxin eliminates TRPV1+ primary sensory afferents and blunt cardiac sympathetic afferent reflex for a relatively long period.
Resiniferatoxin induces a transient elevation in intracellular free Ca2+ concentration in hVR1-HEK293 cells with pEC50 of 6.45.
Resiniferatoxin Ca2+ mobilization from inositol 1,4,5-trisphosphate-sensitive Ca2+ stores in hVR1-HEK293 cells.
Resiniferatoxin (0.01-0.1 mg/kg; s.c.) inhibits both the osteosarcoma- and the CFA-induced hyperalgesia.

References

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