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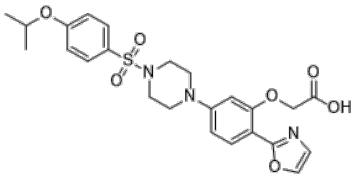
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Asapiprant
Cat. No.	:	PC-22638
CAS No.	:	932372-01-5
Molecular Formula	:	$C_{24}H_{27}N_3O_7S$
Molecular Weight	:	501.55
Target	:	Prostaglandin Receptor
Solubility	:	10 mM in DMSO



CAS: 932372-01-5

Biological Activity

Asapiprant (S-555739) is a potent and selective prostaglandin DP1 receptor antagonist with Ki of 0.44 nM, >300-fold selective over EP2 and other prostanoid receptors.
Asapiprant (S-555739) strongly inhibits the cAMP elevation elicited by PGD2 in human platelets with IC50 of 16 nM, 50-fold than another DP1 antagonist, S-5751 (840 nM).
Asapiprant (S-555739) inhibits cAMP elevation induced by PGD2 in guinea pigs, rats, and sheep with IC50 of 61, 74, and 15, respectively.
Asapiprant (S-555739) (3, 5 mg/kg) inhibits PGD2-induced nasal resistance (sRaw) in guinea pigs.
Asapiprant (S-555739) suppresses antigen-induced asthmatic responses, airway hyper-responsiveness, and cell infiltration and mucin production in lung.

References

Takahashi G, et al. Eur J Pharmacol. 2015 Oct 15;765:15-23.

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