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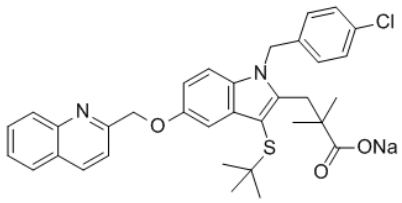
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MK-591
Cat. No.	:	PC-45853
CAS No.	:	147030-01-1
Molecular Formula	:	$C_{34}H_{34}ClN_2NaO_3S$
Molecular Weight	:	609.1531
Target	:	FLAP
Solubility	:	10 mM in DMSO



Biological Activity

Quiflapon (MK-591, MK-0591, L-686708) sodium is a potent, orally active leukotriene biosynthesis inhibitor that acts by inhibiting 5-lipoxygenase activating protein (**FLAP**) with IC50 of 1.6 nM in a FLAP binding assay.
Quiflapon (MK-591) inhibits leukotriene (LT) biosynthesis in intact human and elicited rat PMNLs with IC50 of 3.1 nM and 6.1 nM, respectively.
Quiflapon (MK-591) inhibits the systemic generation of peptidoleukotrienes as measured by urinary LTE4 excretion in dogs (ED50=1 mg/kg).

References

Brideau C, et al. ***Can J Physiol Pharmacol.*** 1992 Jun;70(6):799-807.

Ménard L, et al. ***Can J Physiol Pharmacol.*** 1992 Jun;70(6):808-13.

Tagari P, et al. ***J Pharmacol Exp Ther.*** 1993 Apr;265(1):416-25.

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