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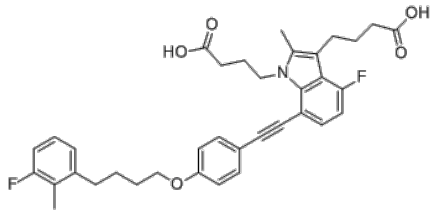
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Gemilukast
Cat. No.	:	PC-35978
CAS No.	:	1232861-58-3
Molecular Formula	:	$C_{36}H_{37}F_2NO_5$
Molecular Weight	:	601.69
Target	:	Leukotriene Receptor
Solubility	:	10 mM in DMSO



Biological Activity

Gemilukast (ONO-6950, ONO6950) is a potent, orally active, dual **CysLT1** and **CysLT2** antagonist with IC50 of 1.7 and 25 nM against human CysLT1 and human CysLT2, respectively.
Gemilukast (ONO-6950) antagonized intracellular calcium signaling via human and guinea pig CysLT1 and CysLT2 receptors with IC50 values of 1.7 and 25 nM, respectively (human receptors) and 6.3 and 8.2 nM, respectively (guinea pig receptors).
Gemilukast (ONO-6950) attenuated CysLT1-mediated bronchoconstriction and airway vascular hyperpermeability induced by LTD4 in normal guinea pigs (1 or 0.3 mg/kg, p.o.), strongly inhibited this asthmatic response to the level attained by combination therapy with montelukast and BayCysLT2RA.

References

Itadani S, et al. ***J Med Chem***. 2015 Aug 13;58(15):6093-113.

Yonetomi Y, et al. ***Eur J Pharmacol***. 2015 Oct 15;765:242-8.

Gauvreau GM, et al. ***Allergy***. 2016 Dec;71(12):1721-1727.

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