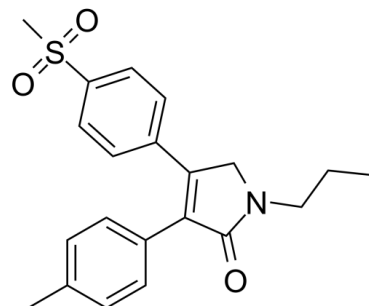


Data Sheet

Product Name:	Imrecoxib
Cat. No.:	CS-0079499
CAS No.:	395683-14-4
Molecular Formula:	C ₂₁ H ₂₃ NO ₃ S
Molecular Weight:	369.48
Target:	COX
Pathway:	Immunology/Inflammation
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Imrecoxib (BAP-909) is a novel and selective cyclooxygenase 2 (COX-2) inhibitor with an IC₅₀ value of 18 nM, it also inhibits COX1-activity with an IC₅₀ value of 115 nM. Imrecoxib (BAP-909) has anti-inflammatory effect^[1]. **In Vitro:** Imrecoxib (BAP-909) (0.1-10 μM; 24 hours) decreases COX-2 mRNA level induced by PMA+LPS at a dose dependent manner in U937 cells^[1]. **In Vivo:** Imrecoxib (BAP-909) (gastrointestinal administration; 5-20 mg/kg; 1 hour before carrageenan injection) inhibits carrageenan-induced acute inflammation, and the inhibitory effect is maximal at 4 hours^[1].

Imrecoxib (BAP-909) (gastrointestinal administration; 5-20 mg/kg; started on day 7; 26 days) diminishes the secondary paw swelling and inhibits heat-inactivated BCG induced-inflammatory polyarthritis^[1].

References:

[1]. Chen XH, et al. Imrecoxib: a novel and selective cyclooxygenase 2 inhibitor with anti-inflammatory effect. Acta Pharmacol Sin. 2004 Jul;25(7):927-31.

CAIndexNames:

2H-Pyrrol-2-one, 1,5-dihydro-3-(4-methylphenyl)-4-[4-(methylsulfonyl)phenyl]-1-propyl-

SMILES:

O=C1N(CCC)CC(C2=CC=C(S(=O)(C)=O)C=C2)=C1C3=CC=C(C)C=C3

Caution: Product has not been fully validated for medical applications. For research use only.

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