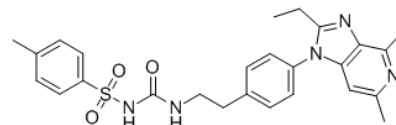


Product Name : Grapiprant
Cat. No. : PC-45077
CAS No. : 415903-37-6
Molecular Formula : C₂₆H₂₉N₅O₃S
Molecular Weight : 491.6052
Target : Prostaglandin Receptor
Solubility : 10 mM in DMSO



Biological Activity

Grapiprant (CJ-023423, AAT-007) is a potent, selective **EP4 receptor** antagonist with Ki values of 13/20 nM against human and rat EP(4) receptors.

Grapiprant (CJ-023423) is highly selective for the human EP(4) receptor over other human prostanoid receptor subtypes.

Grapiprant (CJ-023423) also inhibits PGE(2)-evoked elevation in intracellular cAMP at the human and rat EP(4) receptors with pA(2) of 8.3 +/- 0.03 and 8.2 +/- 0.2 nM, respectively.

Oral administration of Grapiprant (CJ-023423) significantly reduces thermal hyperalgesia induced by intraplantar injection of PGE(2) (ED(50) = 12.8 mg/kg).

Grapiprant (CJ-023423) is also effective in models of acute and chronic inflammatory pain.

CJ-023,423 significantly reduces mechanical hyperalgesia in the carrageenan model.

Grapiprant (CJ-023423) significantly reverses complete Freund's adjuvant-induced chronic inflammatory pain response.

References

Kazunari Nakao, et al. *J Pharmacol Exp Ther.* 2007 Aug;322(2):686-94.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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