



LKT Laboratories, Inc.

Grapiprant

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Product Information

Product ID G681019

CAS No. 415903-37-6

Chemical Name 1-[2-[4-(2-ethyl-4,6-dimethylimidazo[4,5-c]pyridin-1-yl)phenyl]ethyl]-3-(4-methylphenyl)sulfonylurea

Synonym CJ-023423; RQ-00000007; AAT-007

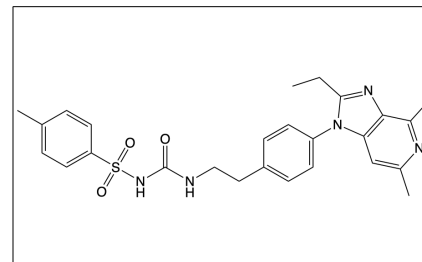
Formula C₂₆H₂₉N₅O₃S

Formula Wt. 491.61

Melting Point

Purity ≥98%

Solubility DMSO (>80 mg/mL), ethanol (>20 mg/mL). Insoluble in water..



Bulk quantities available upon request

Product ID	Size
G681019	5 mg
G681019	25 mg
G681019	100 mg

Store Temp -20°C

Ship Temp Ambient

Description Grapiprant is an orally bioavailable antagonist of the prostaglandin E receptor subtype 4 (EP4), with potential analgesic, immunomodulating and antineoplastic activities. Upon administration of grapiprant, this agent selectively binds to and inhibits the binding of prostaglandin E2 (PGE2) and prevents the activation of the EP4 receptor. This inhibits PGE2-EP4 receptor-mediated signaling and prevents proliferation in tumor cells in which the PGE2-EP4 signaling pathway is over-activated. In addition, EP4 receptor inhibition modulates the immune system by preventing both interleukin-23 (IL-23) production and the IL-23-mediated expansion of Th17 cells. As EP4 is expressed by peripheral sensory neurons, blockade of EP4-mediated signaling may induce an analgesic effect. EP4, a prostanoid receptor subtype, is a G protein-coupled receptor that is expressed in certain types of cancers; it promotes tumor cell proliferation and invasion.
NCI Thesaurus (NCIt)

References Shaw KK, Rausch-Derra LC, Rhodes L. Grapiprant: an EP4 prostaglandin receptor antagonist and novel therapy for pain and inflammation. V. med Sci. (2015) 2:3-9. PMID: 29067176 PMCID: PMC5645826 DOI: 10.1002/vms3.13

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.