



LKT Laboratories, Inc.

Doramapimod

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Product Information

Product ID D5868

CAS No. 285983-48-4

Chemical Name 1-(3-(1,1-Dimethylethyl)-1-(4-methylphenyl)-1H-pyrazol-5-yl)-3-(4-(2-(morpholin-4-yl)ethoxy)naphthalen-1-yl)urea

Synonym 1-[2-(4-Methylphenyl)-5-tert-butyl-pyrazol-3-yl]-3-[4-(2-morpholin-4-ylethoxy)naphthalen-1-yl]urea, BIRB796

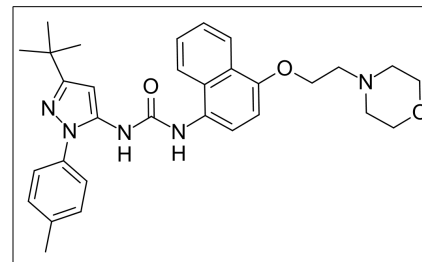
Formula C₃₁H₃₇N₅O₃

Formula Wt. 527.66

Melting Point

Purity ≥99%

Solubility



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D5868	10 mg	\$118.20
D5868	25 mg	\$244.40
D5868	100 mg	\$651.80

Store Temp Ambient

Ship Temp Ambient

Description Doramapimod is an anticancer chemotherapeutic inhibitor of p38 MAPK and JNK that also displays some in vitro activity against anaplastic lymphoma kinase (ALK). Doramapimod is currently in clinical trials as a potential treatment for inflammatory diseases, exhibiting anti-inflammatory activity. In vitro, this compound inhibits expression of COX-2, MMP13, iNOS, and TNF-α and decreases release of prostaglandin E2 (PGE2), decreasing the overall inflammatory response.

References Hoogendijk AJ, Pinhanços SS, van der Poll T, et al. Intrapulmonary administration of a p38 mitogen activated protein kinase inhibitor partially prevents pulmonary inflammation. *Immunobiology*. 2013 Apr;218(4):435-42. PMID: 22727776.

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Kuglstatter A, Ghatge M, Tsing S, et al. X-ray crystal structure of JNK2 complexed with the p38alpha inhibitor BIRB796: insights into the rational design of DFG-out binding MAP kinase inhibitors. *Bioorg Med Chem Lett*. 2010 Sep 1;20(17):5217-20. PMID: 20655210.

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Kuma Y, Sabio G, Bain J, et al. BIRB796 inhibits all p38 MAPK isoforms in vitro and in vivo. *J Biol Chem*. 2005 May 20;280(20):19472-9. PMID: 15755732.

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