

**Catalog # 10-2128**

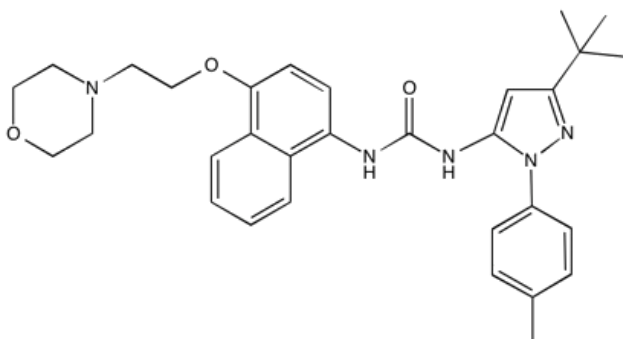
**Doramapimod**

CAS# 285983-48-4

1-[5-tert-Butyl-2-(4-methylphenyl)pyrazol-3-yl]-3-[4-(2-morpholin-4-ylethoxy)naphthalene-1-yl]urea

BIRB-796

Lot # X101662



Potently and selectively inhibits p38 MAPK by simultaneously binding to the ATP-binding domain and an allosteric site.<sup>1</sup> (IC<sub>50</sub>=18 nM). Displays anti-inflammatory activity<sup>2</sup> but differential effects on inflammatory genes<sup>3</sup>. Cell permeable.

- 1) Pargellis *et al.* (2002), *Inhibition of p38 MAP kinase by utilizing a novel allosteric binding site*; Nat. Struct. Biol., **9** 268
- 2) Branger *et al.* (2002), *Anti-inflammatory effects of a p38 mitogen-activated protein kinase inhibitor during human endotoxemia*; J. Immunol., **168** 4070
- 3) Joos *et al.* (2010), *Differential effects of p38MAP kinase inhibitors on the expression of inflammation-associated genes in primary, interleukin-1 beta-stimulated human chondrocytes*; Br. J. Pharmacol., **160** 1252

**PHYSICAL DATA**

Molecular Weight:	527.66
Molecular Formula:	C <sub>31</sub> H <sub>37</sub> N <sub>5</sub> O <sub>3</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml), or Ethanol (up to 30 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied, desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 2 months.

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