Cell Guidance Systems Ltd, Babraham Research Park, Cambridge CB22 3AT, UK

Data Sheet

Research Use Only

Compound Name

BIRB796

Catalog Number

SM11

Alternative Names

Doramapimod, BIRB-796, BIRB 796, 285983-48-4, S1574_Selleck, Kinome_2137, 1kv2, UNII-HO1A8B3YVV, Doramapimod (USAN/INN), 1-(5-tert-Butyl-2-p-tolyl-2H-pyrazol-3-yl)-3-[4-(2-morpholin-4-yl-ethoxy)naphthalen-1-yl]urea

Activity

BIRB796 (Doramapimod) is a protein kinase inhibitor of p38 MAPK. BIRB796 (Doramapimod) has high picomolar affinity (Kd = 100 pM) for p38 MAP kinase and low nanomolar inhibitory activity (IC50 = 18 nM) against TNFα in THP-1 cell culture. The p38 inhibitor BIRB796 (Doramapimod) binds tightly (Kd = 40 nM) to ABL(T315I) and inhibits the BMS-354825- and imatinib-resistant ABL(T315I) kinase.

Effect

BIRB796 has been used as part of the NHSM media to create naive state human cells.

Purity

>99%

CAS

285983-48-4

Formula

$C_{31}H_{37}N_5O_3$

Molecular Weight

527.66

Solubility

DMSO, ethanol

Stability

Stable at -20°C. Keep away from direct sunlight.

References

1. Gafni, O., et al. 2013. Nature. 504(7479): 282–286. PMID: 24172903