

BIRB 796 (Doramapimod)

Catalog Number :2854848

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Synonyms: BIRB796

Chemical Name: 1-[5-tert-butyl-2-(4-methylphenyl)pyrazol-3-yl]-3-[4-(2-morpholin-4-ylethoxy)naphthalen-1-yl]urea

Molecular Formula: C₃₁H₃₇N₅O₃

Molecular Weight: 527.7

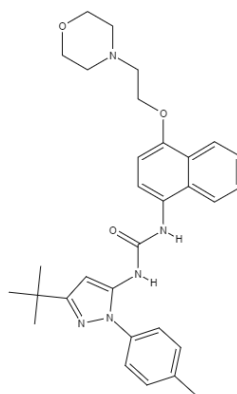
CAS Number: 285983-48-4

Purity: ≥98%

Applications: FA

Formulation: Crystalline solid

Storage: Product should be kept at -20°C.



Description

BIRB 796 is a member of the N-pyrazole-N'-naphthly urea class of p38 MAPK inhibitors that binds to the kinase with slow association and dissociation rates without affecting JNK substrate phosphorylation. The p38 MAP kinase is involved in the production of pro-inflammatory cytokines such as TNF and IL-1. BIRB 796 is reported to be useful in the maintenance of cell lines by inducing self-renewal.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO.

References

1. Pargellis, C., Tong, L., Churchill, L., Cirillo, P. F., Gilmore, T., Graham, A. G., ... Regan, J. (2002). Inhibition of p38 MAP kinase by utilizing a novel allosteric binding site.; *Nature Structural Molecular Biology*,;9(4), 268-272.
2. Regan, J., Pargellis, C. A., Cirillo, P. F., Gilmore, T., Hickey, E. R., Peet, G. W., ... Moss, N. (2003). The kinetics of binding to p38MAP kinase by analogues of BIRB 796.; *Bioorganic medicinal chemistry letters*,;13(18), 3101-3104.
3. Kumar, S., Boehm, J., Lee, J. C. (2003). p38 MAP kinases: key signalling molecules as therapeutic targets for inflammatory diseases.; *Nature reviews Drug discovery*,;2(9), 717-726.