

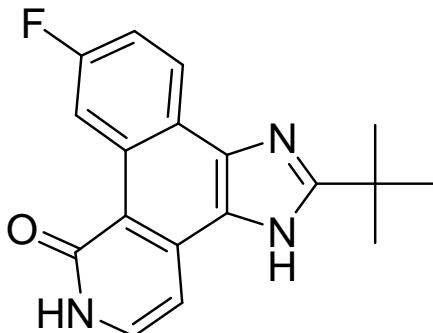
SYMANSIS™

Product Data Sheet

Compound Name

Mk-5

Structure



CAS Number

[457081-03-7]

Chemical Formula:

 $C_{18}H_{16}FN_3O$

Molecular Weight:

309.34

Background information

Mode of Action

Jak kinase inhibitor

Predominant Target(s)

Jak3, Jak1, Tyk2 and Jak2

Published Activity
(not validated)

The inhibitor of 21 other protein kinases with IC_{50} s ranging from 130nM to $>10\mu M$, blocks IL2 and IL4 dependent proliferation of CTLL cells and inhibits the phosphorylation of STAT5

Development stage

Research

References

Photochemical preparation of a pyridone containing tetracycline: A jak protein kinase inhibitor. Thompson, James E.; Cubbon, Rose M.; Cummings, Richard T.; Wicker, Linda S.; Frankshun, Robert; Cunningham, Barry R.; Cameron, Patricia M.; Meinke, Peter T.; Liverton, Nigel; Weng, Youmin; DeMartino, Julie A. **Bioorganic & Medicinal Chemistry Letters** (2002), 12(8), 1219-1223.