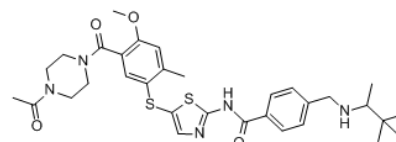


Product Name : BMS-509744
Cat. No. : PC-42806
CAS No. : 439575-02-7
Molecular Formula : C₃₂H₄₁N₅O₄S₂
Molecular Weight : 623.829
Target : ITK
Solubility :



Biological Activity

BMS-509744 is a potent, selective, ATP-competitive **IL2--inducible T cell kinase (ITK)** inhibitor with IC₅₀ of 19 nM. BMS-509744 displays >200-fold selectivity over others Tec family tyrosine kinases and > 30-fold over a broad panel protein kinases.

BMS-509744 reduces TCR-induced functions including PLCγ1 tyrosine phosphorylation, calcium mobilization, IL-2 secretion and T-cell proliferation in vitro.

BMS-509744 significantly diminishes lung inflammation in mouse model of allergy/asthma; also potently blocks wild-type HIV-1 infectivity and replication in vitro.

References

- Lin TA, et al. *Biochemistry*. 2004 Aug 31;43(34):11056-62.
Dondorf S, et al. *J Biol Chem*. 2015 Apr 17;290(16):10568-9.
Tarafdar S, et al. *J Biol Chem*. 2014 May 30;289(22):15718-28.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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