

## Product Data Sheet

Product Name: Lck Inhibitor III free base

Cat. No.: GC81842

### Chemical Properties

Cas. No. 918870-44-7

Formula  $C_{25}H_{28}N_6O_3$  M.Wt 460.53

Solubility DMSO: 100 mg/mL (217.14 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Lck Inhibitor III free base is a Lck inhibitor with an  $IC_{50}$  of 867 nM. Lck Inhibitor III free base inhibits the production of interleukin-2 ( IL-2 ). Lck Inhibitor III free base can be used in the study of autoimmune diseases [1].

In Vitro, Lck Inhibitor III free base (Compound 12h) inhibits purified lymphocyte-specific kinase (Lck) with an  $IC_{50}$  of 867 nM<sup>[1]</sup>. The intrinsic clearance of Lck Inhibitor III free base (1  $\mu$ M; 1 h) in cryopreserved rat hepatocyte suspensions is 48 mL/min kg<sup>[1]</sup>. Lck Inhibitor III free base inhibits IL-2 production in Jurkat cells with an  $IC_{50}$  of 1.270  $\mu$ M<sup>[1]</sup>.

### References:

[1]. Sabat M, et al. The development of 2-benzimidazole substituted pyrimidine based inhibitors of lymphocyte specific kinase (Lck). Bioorganic & medicinal chemistry letters. 2006 Dec 01;16(23):5973-7.

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