



LKT Laboratories, Inc.

IC-87114

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Product Information

Product ID I0800

CAS No. 371242-69-2

Chemical Name

Synonym

Formula $C_{22}H_{19}N_7O$

Formula Wt. 397.43

Melting Point

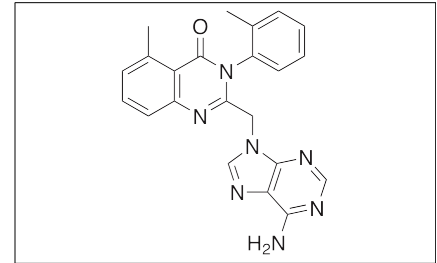
Purity $\geq 98\%$

Solubility DMSO 0.66 mg/mL (1.66 mM)
Water Insoluble
Ethanol Insoluble

Store Temp 4° C

Ship Temp Ambient

Description IC-87114 is an inhibitor of p110 δ PI3K that exhibits anti-inflammatory, immunosuppressive, anti-asthma, anti-angiogenic, and anti-diabetic activities. In animals, IC-87114 inhibits airway infiltration of lymphocytes, neutrophils, and eosinophils, decreases expression of IL-4, IL-5, IL-13, and IL-17, and prevents activation of NF- κ B, improving airway hyperresponsiveness. In cellular models, IC-87114 impairs cardiac and vascular differentiation, inhibiting VEGF-induced phosphorylation of PKC, Akt, and PDK1. IC-87114 also decreases infiltration of inflammatory cells into pancreatic islets, suppressing loss of glucose homeostasis and preventing the progression of diabetes in animal models.



Bulk quantities available upon request

Product ID	Size
I0800	1 mg
I0800	5 mg
I0800	10 mg

References Durand CA, Richer MJ, Brenker K, et al. Selective pharmacological inhibition of phosphoinositide 3-kinase p110 δ opposes the progression of autoimmune diabetes in non-obese diabetic (NOD) mice. *Autoimmunity*. 2013 Feb;46(1):62-73. PMID: 23039284.

Bekhte MM, Finkensieper A, Binas S, et al. VEGF-mediated PI3K class IA and PKC signaling in cardiomyogenesis and vasculogenesis of mouse embryonic stem cells. *J Cell Sci*. 2011 Jun 1;124(Pt 11):1819-30. PMID: 21540297.

Park SJ, Lee KS, Kim SR, et al. Phosphoinositide 3-kinase δ inhibitor suppresses interleukin-17 expression in a murine asthma model. *Eur Respir J*. 2010 Dec;36(6):1448-59. PMID: 20351038.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.