



LKT Laboratories, Inc.

IPI-145

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Product Information

Product ID I6132

CAS No. 1201438-56-3

Chemical Name

Synonym INK1197, Duvelisib

Formula $C_{22}H_{17}ClN_6O$

Formula Wt. 416.86

Melting Point

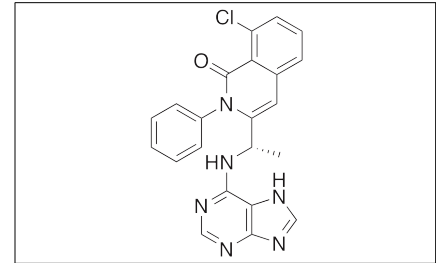
Purity $\geq 98\%$

Solubility DMSO 83 mg/mL (199.1 mM)
Water Insoluble
Ethanol Insoluble

Store Temp 4° C

Ship Temp Ambient

Description IPI-145 is an inhibitor of p110 δ PI3K that exhibits anticancer chemotherapeutic, immunosuppressive, and anti-inflammatory activities. In clinical trials, IPI-145 displays potential benefit in the treatment of chronic lymphocytic leukemia (CLL). IPI-145 inhibits proliferation of B and T cells, inhibits neutrophil migration, and prevents basophil activation in vitro. It also induces apoptosis in CLL cells. In animal models of inflammatory diseases, IPI-145 decreases levels of matrix metalloproteinase 13 (MMP13) and IL-17, inhibiting Th17 T cell differentiation and decreasing arthritis severity and progression.



Bulk quantities available upon request

Product ID	Size
I6132	1 mg
I6132	5 mg
I6132	10 mg

References Balakrishnan K, Peluso M, Fu M, et al. The phosphoinositide-3-kinase (PI3K)-delta and gamma inhibitor, IPI-145 (Duvelisib), overcomes signals from the PI3K/AKT/S6 pathway and promotes apoptosis in CLL. *Leukemia*. 2015 Apr 28. [Epub ahead of print]. PMID: 25917267.

IPI-145 Shows Promise in CLL Patients. *Cancer Discov*. 2014 Feb;4(2):136. PMID: 24501284.

Boyle DL, Kim HR, Topolewski K, et al. Novel phosphoinositide 3-kinase δ, γ inhibitor: potent anti-inflammatory effects and joint protection in models of rheumatoid arthritis. *J Pharmacol Exp Ther*. 2014 Feb;348(2):271-80. PMID: 24244039.

Winkler DG, Faia KL, DiNitto JP, et al. PI3K- δ and PI3K- γ inhibition by IPI-145 abrogates immune responses and suppresses activity in autoimmune and inflammatory disease models. *Chem Biol*. 2013 Nov 21;20(11):1364-74. PMID: 24211136.

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