



LKT Laboratories, Inc.

TG100-115

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Product Information

Product ID T2402

CAS No. 677297-51-7

Chemical Name

Synonym

Formula $C_{18}H_{14}N_6O_2$

Formula Wt. 346.34

Melting Point

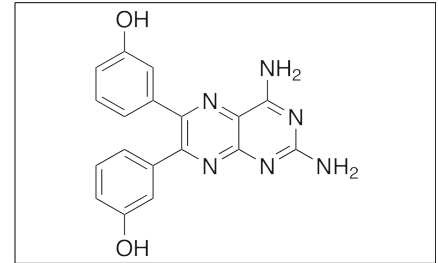
Purity $\geq 98\%$

Solubility DMSO 9 mg/mL (25.98 mM)
Water Insoluble
Ethanol Insoluble

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description TG100-115 is an inhibitor of p110 δ PI3K and p110 γ PI3K that exhibits anti-inflammatory and anti-asthma activities. TG100-115 decreases pulmonary eosinophil levels and accumulation of IL-13 and mucin in animal models of asthma and chronic obstructive pulmonary disorder (COPD), decreasing inflammation. TH100-115 also inhibits edema and inflammation induced by VEGF and platelet activating factor (PAF) in other animal models, decreasing development of infarcts and improving cardiac function. As a result of its cardioprotective activity, TG100-115 is currently in clinical trials as a potential treatment to reduce acute myocardial infarctions.



Bulk quantities available upon request

Product ID	Size
T2402	1 mg
T2402	5 mg
T2402	10 mg

References Doukas J, Eide L, Stebbins K, et al. Aerosolized phosphoinositide 3-kinase gamma/delta inhibitor TG100-115 [3-[2,4-diamino-6-(3-hydroxyphenyl)pteridin-7-yl]phenol] as a therapeutic candidate for asthma and chronic obstructive pulmonary disease. *J Pharmacol Exp Ther.* 2009 Mar;328(3):758-65. PMID: 19056934.

Doukas J, Wrasidlo W, Noronha G, et al. Isoform-selective PI3K inhibitors as novel therapeutics for the treatment of acute myocardial infarction. *Biochem Soc Trans.* 2007 Apr;35(Pt 2):204-6. PMID: 17371238.

Doukas J, Wrasidlo W, Noronha G, et al. Phosphoinositide 3-kinase gamma/delta inhibition limits infarct size after myocardial ischemia/reperfusion injury. *Proc Natl Acad Sci U S A.* 2006 Dec 26;103(52):19866-71. PMID: 17172449.

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