TG100-115

Kinase Inhibitor

E1KS1352

Kinase Inhibitor Name: TG100-115

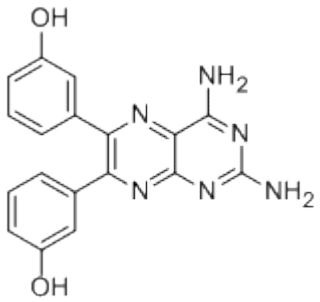
Catalog Number: E1KS1352

Quantity:10mg

1. PHYSICAL AND CHEMICAL PROPERTIES

M.Wt:	346.34
Formula:	$C_{18}H_{14}N_6O_2$
Solubility:	DMSO ≥9 mg/mL Water <1 mg/mL Ethanol <1 mg/mL
Stability:	2 years -20℃ Powder
	1 week -4℃ in DMSO
	1 month -80℃ in DMSO
CAS No.:	677297-51-7

Molecular Structure:



2. Biological Activity

TG100-115, inhibited PI3K γ and -δ(IC50 values of 83 and 235 nM, respectively), whereas both PI3Kα and -β were relatively unaffected (IC50 values>1 μM). As a gauge of general specificity, TG100-115 was also assayed against a 133 protein kinase panel, none of which was inhibited at IC50 values <1 μM. [2,3]

TG100-115 is applied to anti-inflammatory therapy for respiratory diseases such as asthma and chronic obstructive pulmonary disease (COPD). TG100-115 could reduce inflammation and mucin accumulation.

3. References:

Phosphoinositide 3-kinase γ/δ inhibition limits infarct size after myocardial ischemia/reperfusion injury John Doukas,Wolfgang Wrasidlo,et al. PNAS December 26, 2006;103:19866–19871

Aerosolized Phosphoinositide 3-Kinase γ/δ 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 John Doukas, Lisa Eide,et al. JPET 2009;328:758–765

The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.