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**Product Data Sheet**

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Product Name: ETP 45658

Cat. No.: GC50072

**Chemical Properties**

Cas. No. 1198357-79-7

SMILES CN2C1=NC(C3=CC(O)=CC=C3)=NC(N4CCOCC4)=C1C=N2Formula  $C_{16}H_{17}N_5O_2$  M.Wt 311.34

Solubility Soluble in DMSO 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**

PI 3-kinase inhibitor (IC<sub>50</sub> values are 22, 30, 129 and 710 nM for PI 3-K $\alpha$ , PI 3-K $\delta$ , PI 3-K $\beta$  and PI 3-K $\gamma$  respectively). Also inhibits DNA-PK and mTOR (IC<sub>50</sub> values are 70.6 and 152 nM respectively). Inhibits proliferation of multiple cancer cell lines in vitro and reduces Akt phosphorylation levels in vivo.

Link et al (2009) Chemical interrogation of FOXO3a nuclear translocation identifies potent and selective inhibitors of phosphoinositide 3-kinases. J.Biol.Chem. 284 28392 PMID:19690175 | Hill et al (2014) A novel phosphatidylinositol 3-kinase (PI3K) inhibitor directs a potent FOXO-dependent, p53-independent cell cycle arrest phenotype characterized by the differential induction of a subset of FOXO-regulated genes. Breast Cancer Res. 16 482 PMID:25488803

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

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