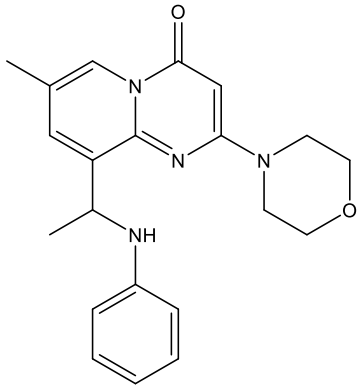
Catalog #10-4783
TGX-221

CAS# 663619-89-4

9-(1-Anilinoethyl)-7-methyl-2-morpholino-4-ylpyrido[1,2-a]pyrimidin-4-one; 7-Methyl-2-morpholino-9-(1-(phenylamino)ethyl)-4H-pyrido[1,2-a]pyrimidin-4-one

Lot # FBS4024



TGX-221 is a potent (IC_{50} = 5 nM) and selective (1000-fold over p110α and p110γ) inhibitor of PI3-kinase isoform p110ß.[1] Displays anti-thrombotic activity without affecting bleeding time.[1,2] It significantly inhibited tumorigenesis in VHL, SETD2, PTEN, and CDKN2A mutated clear cell renal cell carcinoma.[3] TGX-221 induced apoptosis in glioblastoma cells and inhibited cell migration and invasion.[4]

1) Jackson *et al.* (2005), *PI 3-kinase p110ß: a new target for antithrombotic therapy*; Nat. Med. **11** 507
2) Sturgeon *et al.* (2008), *Advantages of a selective beta-isoform phosphoinositide 3-kinase antagonist, an anti-thrombotic agent devoid of other cardiovascular actions in the rat*; Nature **587** 209
3) Feng *et al.* (2015), *PI3Kß Inhibitor TGX221 Selectively Inhibits Renal Cell Carcinoma Cells with Both VHL and SETD2 Mutations and Links Multiple Pathways*; Sci. Rep. **5** 9465
4) Yang *et al.* (2017), *TGX-221 inhibits proliferation and induces apoptosis in human glioblastoma cells*; Oncol. Rep. **38** 2836

PHYSICAL DATA

Molecular Weight:	364.45
Molecular Formula:	$C_{21}H_{24}N_4O_2$
Purity:	98% (HPLC) NMR: (Conforms)
Solubility:	DMSO (10 mg/mL)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com