Web: www.taiclone.com
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# TGX-221

## Catalog No: tcsc0110

### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg

### Specifications

**CAS No:**
663619-89-4

**Formula:**
$C_{21}H_{24}N_4O_2$

**Pathway:**
PI3K/Akt/mTOR

**Target:**
PI3K

**Purity / Grade:**
>98%

**Solubility:**
10 mM in DMSO

**Observed Molecular Weight:**
364.44

## Product Description

TGX-221 is a potent, selective, and cell membrane permeable inhibitor of the **PI3K p110β** catalytic subunit, used for cancer

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treatment.

IC50 & Target: IC50: 8.5 nM (p110β), 211 nM (p110δ)[5]

***In Vitro:*** TGX-221, BL05 and BL05-HA show selective cytotoxicity to LNCaP cells, which may be due to the deficiency of PTEN in this cell line and the accumulation of PIP3 in the cells[1]. TGX-221 (1 μM) does not affect the expression and phosphorylation of AMPK in C2C12 myoblasts[2]. TGX221 (0.1, 1, 10 μM) induces IL-6 release from ASM cells[2]. TGX-221 does not affect neurotensin-stimulated Akt phosphorylation when used alone, but it further suppresses neurotensin-stimulated phosphorylation of Akt when combined with gefitinib. TGX-221 abolishes the neurotensin-stimulated phosphorylation of Akt in Panc-1 cells[3].

***In Vivo:*** TGX-221 (TGX221, 2.5 mg/kg i.v.) abolishes cyclic flow reductions in a Folts-like carotid artery stenosis preparation of thrombosis, without changing bleeding time, heart rate, blood pressure or carotid vascular conductance[4].