

## K-80003

**Catalog No: tcsc0039348**



### Available Sizes

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**Size:** 5mg

**Size:** 10mg

**Size:** 25mg



### Specifications

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**CAS No:**

1292821-90-9

**Formula:**

$C_{22}H_{21}FO_2$

**Pathway:**

PI3K/Akt/mTOR

**Target:**

Akt

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

TX-803

**Observed Molecular Weight:**

336.4

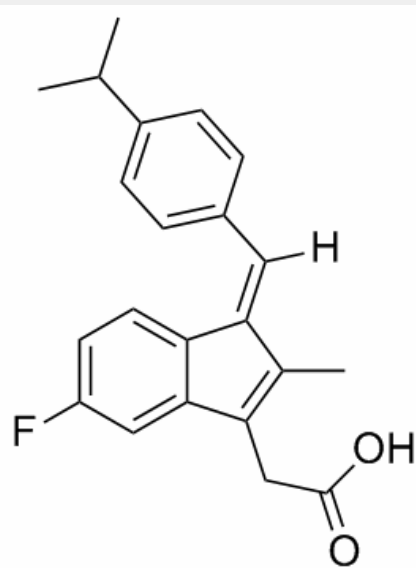
### Product Description

K-80003 is a potent inhibitor of tRXR $\alpha$ -dependent **Akt** activation and cancer cell growth.

IC50 & Target: Akt<sup>[1]</sup>

**In Vitro:** When MCF-7 cells are cotreated with K-80003, TNF $\alpha$ -induced colocalization of tRXR $\alpha$  with p85 $\alpha$  in the cytoplasm is inhibited, resulting in tRXR $\alpha$  nuclear localization. Western blotting shows that K-80003-stabilized tetrameric form of tRXR $\alpha$  is found exclusively in the nuclear fraction, while tRXR $\alpha$  monomer is distributed both in the nuclear and cytoplasmic fractions<sup>[2]</sup>.

**In Vivo:** K-80003 is a potent inhibitor of AKT activation by all-trans-retinoic acid. K-80003 displays enhanced efficacy in inhibiting tRXR $\alpha$ -dependent AKT activation and tRXR $\alpha$  tumor growth in animals. K-80003 has high affinity to RXR $\alpha$  but lacks COX inhibitory activity<sup>[1]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!