

# FK-448 Free base

## Catalog No: tcsc0018187



### Available Sizes

**Size:** 1mg

**Size:** 5mg

**Size:** 10mg



### Specifications

**CAS No:**

85858-76-0

**Formula:**

$C_{25}H_{30}N_2O_3$

**Pathway:**

Metabolic Enzyme/Protease

**Target:**

Proteasome

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

406.52

### Product Description

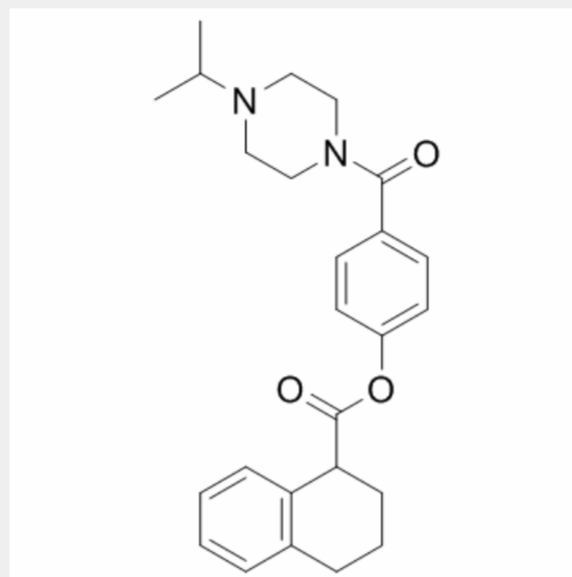
FK-448 Free base is an effective and specific inhibitor of **chymotrypsin**, with an **IC<sub>50</sub>** of 720 nM.

IC50 & Target: IC50: 720 nM (Chymotrypsin)<sup>[1]</sup>

***In Vitro:***

FK-448 Free base is an effective and specific inhibitor of chymotrypsin, with an  $IC_{50}$  of 720 nM. FK-448 Free base slightly inhibits esterolysis of Trypsin and Thrombin, with  $IC_{50}$ s of 780 and 35  $\mu$ M, respectively, but shows no effects on esterolysis of plasmin, plasma kallikrein or pancreas kallikrein, with  $IC_{50}$ s of all  $>1$  mM<sup>[1]</sup>. FK-448 moderately inhibits hydrolytic activities of cathepsin G with an  $IC_{50}$  of 15  $\mu$ M<sup>[2]</sup>.

***In Vivo:*** FK-448 (20 mg/kg, i.p.) results in a decrease in the blood glucose level, and inhibits the degradation of insulin by pancreatic enzymes in rats. FK-448 (20 mg/kg, p.o.) also decreases the blood glucose level, and increases plasma IRI level in dogs<sup>[2]</sup>.



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