

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

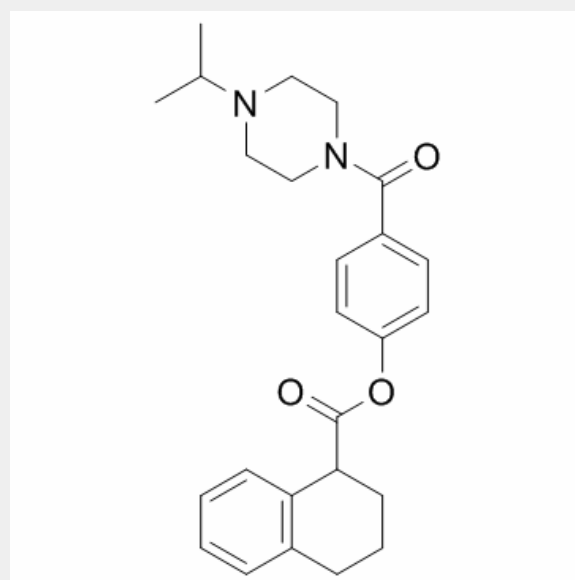
FK-448 Free base is an effective and specific inhibitor of **chymotrypsin**, with an **IC₅₀** of 720 nM.

IC50 & Target: IC50: 720 nM (Chymotrypsin)^[1]

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 μ M, respectively, but shows no effects on esterolysis of plasmin, plasma kallikrein or pancreas kallikrein, with IC_{50} s of all >1 mM^[1]. FK-448 moderately inhibits hydrolytic activities of cathepsin G with an IC_{50} of 15 μ M^[2].

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^[2].



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