



## PBOX 6

Catalog No: tcsc0035400

Available Sizes
ze: 5mg
ze: 10mg
ze: 25mg
Specifications
<b>AS No:</b> 00814-68-5
ormula: 25 <sup>H</sup> 20 <sup>N</sup> 2 <sup>O</sup> 3
athway: ell Cycle/DNA Damage;Cytoskeleton;Apoptosis
arget: crotubule/Tubulin;Microtubule/Tubulin;Apoptosis
urity / Grade: 98%
olubility: O mM in DMSO

## **Product Description**

**Observed Molecular Weight:** 

PBOX 6 is a pyrrolo-1,5-benzoxazepine (PBOX) compound, acts as a **microtubule**-depolymerizing agent and an apoptotic agent.

IC50 & Target: Apoptosis<sup>[1]</sup>, Microtubule<sup>[3]</sup>

In Vitro:

396.44





PBOX 6 is a potent apoptotic PBOX, but does not elicit a general toxic effect in a rat R2C Leydig cell line. PBOX 6 (0-25 μM, 16 h) results in dose- and time-dependent induction of apoptosis, and also causes DNA fragmentation at 10 μM in HL-60 cells. PBOX 6 (10 μM) induces apoptosis through activation of caspase 3-like proteases in HL-60 cells. PBOX 6 (10 μM) induces apoptosis and exerts an accumulation of cytochromec in the cytosol, but this effect is not triggered by oxidative stress, and is independent of peripheral-type benzodiazepine receptor (PBR) and NF- $\kappa$ B<sup>[1]</sup>. PBOX 6 (25 μM) induces apoptosis in MCF-7 cells through activation of caspase-7<sup>[2]</sup>. PBOX 6 (10 μM) induces the redistribution of cypA from the nucleus to the cytosol of the cell in K562 cells. PBOX 6 (10 μM) induces nucleocytoplasmic redistribution of cypA and pin1 through a JNK-dependent manner, also dependent on upstream activation of a trypsin-like serine protease, and this effect correlates with G2/M arrest in K562 cells<sup>[3]</sup>.

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