

# VER-155008

Catalog No: tcsc3823



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

1134156-31-2

**Formula:**

$C_{25}H_{23}Cl_2N_7O_4$

**Pathway:**

Autophagy;Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

**Target:**

Autophagy;HSP;HSP

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 37$  mg/mL (66.50 mM)

**Observed Molecular Weight:**

556.4

## Product Description

VER-155008 is an inhibitor of **Hsp70**, with **IC<sub>50</sub>**s of 0.5  $\mu$ M, 2.6  $\mu$ M, and 2.6  $\mu$ M for **Hsp70**, Hsc70 and Grp7, respectively, and with a **K<sub>d</sub>**

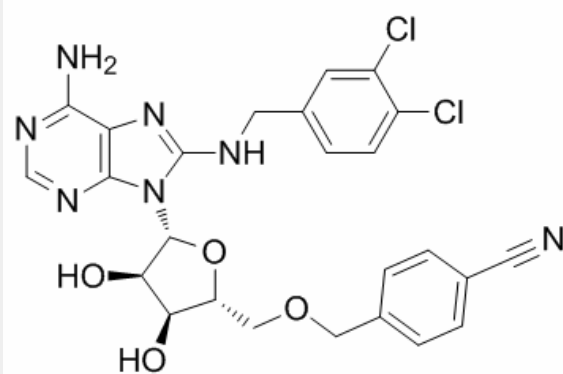
of 0.3  $\mu\text{M}$  for **Hsp70**.

IC<sub>50</sub> & Target: IC<sub>50</sub>: 0.5  $\mu\text{M}$  (Hsp70), 2.6  $\mu\text{M}$  (Hsc70), 2.6  $\mu\text{M}$  (Grp7)<sup>[1]</sup>

K<sub>d</sub>: 0.3  $\mu\text{M}$  (Hsp70)<sup>[1]</sup>

**In Vitro:** VER-155008 is an inhibitor of Hsc70 and Hsp70, with IC<sub>50</sub>s of 0.5  $\mu\text{M}$ , 2.6  $\mu\text{M}$ , and 2.6  $\mu\text{M}$  for Hsp70, Hsc70 and Grp7, respectively, a with a K<sub>d</sub> of 0.3  $\mu\text{M}$  for Hsp70, but shows no activities against Hsp90, with an IC<sub>50</sub> of >200  $\mu\text{M}$ . VER-155008 inhibits the proliferation of a variety of human colon and breast tumor cell lines, such as BT474, MB-468, HCT116 and HT29 cells, with GI<sub>50</sub>s of 10.4  $\mu\text{M}$ , 14.4  $\mu\text{M}$ , 5.3  $\mu\text{M}$ , and 12.8  $\mu\text{M}$ , respectively. VER-155008 (5-40  $\mu\text{M}$ ) induces client protein degradation in HCT116 and BT474 carcinoma cells. VER-155008 also induces apoptosis in human tumor cell lines<sup>[1]</sup>. VER-155008 (0.05-5  $\mu\text{M}$ ) reverses A $\beta$ -induced axonal degeneration in cultured neurons<sup>[2]</sup>. VER-155008 (10  $\mu\text{M}$  or 25  $\mu\text{M}$ ) inhibits Hsp70 and suppresses the proliferation of LNCaP95 cells. VER-155008 also reduces full-length androgen receptor (AR-FL) and androgen receptor splice variant 7 (AR-V7) protein expression<sup>[3]</sup>.

**In Vivo:** VER-155008 (25 mg/kg, i.v.) exhibits plasma clearance in naive female BALB/c mice. VER-155008 (40 mg/kg, i.v.) also shows rapid plasma clearance, and reduces the tumor levels in the HCT116 tumor bearing nude BALB/c mice<sup>[1]</sup>. VER-155008 (10  $\mu\text{mol/kg/day}$ , i.p.) rescues memory deficits, and reduces axonal swelling associated with amyloid plaques in 5XFAD mice. VER-155008 (89.9  $\mu\text{mol/kg/day}$ , i.p.) penetrates into the brain after administration in 5XFAD mice. VER-155008 also decreases amyloid plaques and PHF-tau associated with amyloid plaques in 5XFAD mice<sup>[2]</sup>.



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