



TG003

Catalog No: tcsc2036



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

719277-26-6

Formula:

 $\mathsf{C_{13}H_{15}NO_2S}$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 31 mg/mL (124.33 mM)

Observed Molecular Weight:

249.33

Product Description

TG003 is a potent inhibitor of Clk1/Sty; inhibits Clk1 and Clk4 with IC_{50} values of 20 and 15 nM, respectively.

IC50 & Target: IC50: 20 nM (Clk1), 200 nM (Clk2), >10 μ M (Clk3), 15 nM (Clk4) [1]

In Vitro:





TG003, shows the most potent effect on Clk1/Sty and Clk4 (IC $_{50}$, 15–20 nM) and lesser on Clk2 (200 nM). TG003 inhibits SF2/ASF-dependent splicing of β -globin pre-mRNA *in vitro* by suppression of Clk-mediated phosphorylation. It suppresses serine/arginine-rich protein phosphorylation, dissociation of nuclear speckles, and Clk1/Sty-dependent alternative splicing in mammalian cells^[1]. The small drug TG003 increases endogenous expression of p53 β and p53 γ protein isoforms by modulation of TP53 intron 9 alternative splicing^[2].

In Vivo: Intrathecal injection of either TG003 (1-100 pM) or IC261 (0.1-1 nM) dose-dependently decreases mechanical allodynia and thermal hyperalgesia induced by carrageenan or CFA^[3].

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