

TRC051384

Catalog No: tcsc6513



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg



Specifications

CAS No:

867164-40-7

Formula:

$C_{25}H_{31}N_5O_4$

Pathway:

Metabolic Enzyme/Protease;Cell Cycle/DNA Damage

Target:

HSP;HSP

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (214.80 mM)

Observed Molecular Weight:

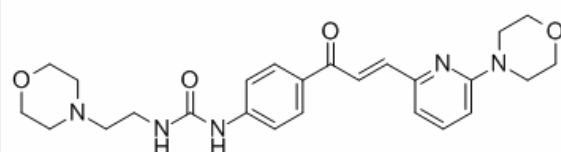
465.54

Product Description

TRC051384 is a heat shock protein 70 (**HSP70**) inducer.

In Vitro: TRC051384, dose dependently induces HSP70B mRNA by several hundred folds in both HeLa and rat primary mixed neurons. Treatment with TRC051384 results in significant dose-dependent increase in HSF1 transcriptional activity and recovery of luciferase activity. TRC051384 results in 60% inhibition at 6.25 μ M and 90% inhibition at 12.5 μ M of LPS-induced TNF- α expression in differentiated THP-1 cell line^[1].

In Vivo: Treatment with TRC051384 significantly reduces stroke associated neuronal injury (87% reduction in area of penumbra recruited to infarct, and 25% reduction in brain edema) and disability in a rat model of transient ischemic stroke even when administered 8 hours post onset of ischemia. Significant improvement in survival (50% by day2 and 67.3% by day 7) is observed with TRC051384 treatment initiated at 4 hours after ischemia onset. Induction of HSP70 by TRC051384 involves HSF1 activation and results in elevated chaperone and anti-inflammatory activity^[1].



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