

# ITX3

**Catalog No: tcsc3176**



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

347323-96-0

**Formula:**

$C_{22}H_{17}N_3OS$

**Pathway:**

Others

**Target:**

Others

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Observed Molecular Weight:**

371.45

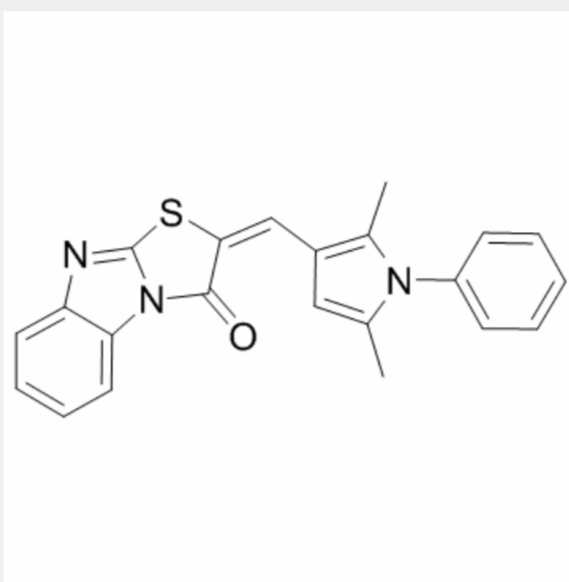
## Product Description

ITX3 is a specific and nontoxic inhibitor of the TrioN (N-terminal GEF domain of the multidomain Trio protein) with IC50 of 76 uM; inhibits TrioN-stimulated RhoG exchange in vitro.

IC50 value: 76 uM [1]

Target: TrioN inhibitor

In transfected mammalian cells, ITX3 blocked TrioN-mediated dorsal membrane ruffling and Rac1 activation while having no effect on GEF337-, Tiam1-, or Vav2-mediated RhoA or Rac1 activation. ITX3 specifically inhibited endogenous TrioN activity, as evidenced by its ability to inhibit neurite outgrowth in nerve growth factor (NGF)-stimulated PC12 cells or C2C12 differentiation into myotubes [1]. ITX3 repressed the Rac1 activity and dose dependently up-regulated the E-cadherin protein level in the Tara-KD cells [2].



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