

Resatorvid

Catalog No: tcsc0408



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

243984-11-4

Formula:

$C_{15}H_{17}ClFNO_4S$

Pathway:

Autophagy;Immunology/Inflammation

Target:

Autophagy;Toll-like Receptor (TLR)

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 360 mg/mL (994.97 mM)

Alternative Names:

TAK-242; CLI-095

Observed Molecular Weight:

361.82

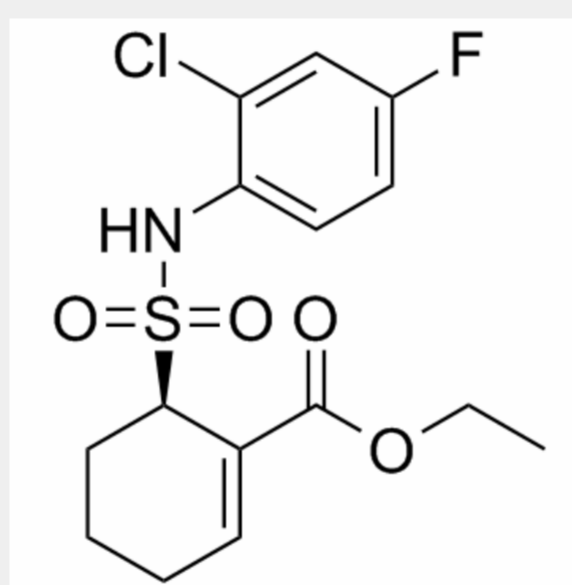
Product Description

Resatorvid (TAK-242) is a potent **TLR4** signaling inhibitor which selectively inhibits the TLR4-mediated production of cytokines and nitric oxide.

IC₅₀ & Target: TLR4^[1]

In Vitro: In RAW264.7 cells and mouse peritoneal macrophages, Resatorvid (TAK-242) suppresses lipopolysaccharide (LPS)-induced production of NO, tumor necrosis factor- α (TNF- α), and interleukin (IL)-6, with IC₅₀ of 1.1 to 11 nM. Resatorvid (TAK-242) also suppresses the production of these cytokines from LPS-stimulated human peripheral blood mononuclear cells (PBMCs) at IC₅₀ values from 11 to 33 nM^[1].

In Vivo: Resatorvid (TAK-242) apparently reduces the serum anti-dsDNA levels in both genotype mice. Alternatively, IFN- γ , TNF- α , and IL-1 β production is markedly inhibited by Resatorvid (TAK-242), but their concentrations are still greatly higher than those in NS-treated counterparts^[2]. Resatorvid (TAK-242) pre-stress administration prevents the accumulation of potentially deleterious inflammatory and oxidative/nitrosative mediators in the brain frontal cortex of rats. Resatorvid (TAK-242) i.v. administration at the beginning of the stress session completely blocks TLR-4 mRNA and protein upregulation after stress exposure^[3].



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