

**Product Name** : SRTCX1003

**Synonyms** : SRTCX-1003

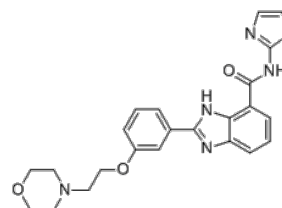
**Cat No.** : M10743

**CAS Number** : 1203480-93-6

**Molecular Formula** : C<sub>23</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S

**Formula Weight** : 449.53

**Chemical Name** : 2-(3-(2-morpholinoethoxy)phenyl)-N-(thiazol-2-yl)-1H-benzod[*h*]imidazole-7-carboxamide



**Description** : SRTCX1003 (SRTCX-1003) is a small molecule activator of SIRT1 (STAC) with EC<sub>1.5</sub> of 0.61 uM, enhances deacetylation of cellular p65 protein with IC<sub>50</sub> of 1.42 uM in cellular p65 acetylation assay; suppresses TNFα-induced NF-κB transcriptional activation and reduction of LPS-stimulated TNFα secretion in a SIRT1-dependent manner, decreases the production of the proinflammatory cytokines TNFα and IL-12 in acute mouse model of LPS-induced inflammation.

**Pathway** : Chromatin/Epigenetic

**Target** : Sirtuin

**Receptor** : Sirtuin

**Solubility** : —

**SMILES** : COC1=C(C=CC(=C1)C=CC(=O)C2=CC=C(C=C2)Cl)O.O

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Yang H, et al. PLoS One. 2012;7(9):e46364. 2. Kim SY, et al. PLoS One. 2015 Jul 15;10(7):e0133448.