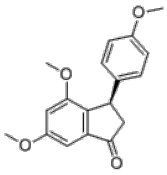
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	(R)-STU104
Cat. No.	:	PC-38495
CAS No.	:	2767124-77-4
Molecular Formula	:	$C_{18}H_{18}O_4$
Molecular Weight	:	298.33
Target	:	MEK (MAP2K)
Solubility	:	10 mM in DMSO



Biological Activity

(R)-STU104 is a potent, first-in-class **TAK1-MKK3** porotein-protein interaction (PPI) inhibitor with SPR Kd of 71 nM for binding **MKK3**, disrupting the TAK1 phosphorylating MKK3.
(R)-STU104 exhibited the potent inhibitory activity on TNF-α production on RAW264.7 cells with IC50 of 0.58 uM, suppressed the TAK1/MKK3/p38/MnK1/MK2/eIF4E signal pathways.
(R)-STU104 demonstrated remarkable dose-effect relationships on both acute and chronic mouse ulcerative colitis (UC) models.
(R)-STU104 showed better anti-UC efficacy in vivo at 10 mg/kg/d than mesalazine at the dose of 50 mg/kg/d.

References

Mei-Lin Tang, et al. ***J Med Chem***. 2022 Apr 20. doi: 10.1021/acs.jmedchem.1c02198.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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