

Product Name : CK-37

Synonyms : ChoK-α inhibitor CK37

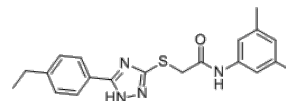
Cat No. : M10017

CAS Number : 1001478-90-5

Molecular Formula : C₂₀H₂₂N₄O₂S

Formula Weight : 366.48

Chemical Name : N-(3,5-dimethylphenyl)-2-[[5-(4-ethylphenyl)-1H-1,2,4-triazol-3-yl]sulfanyl] acetamide



Description : A potent, specific, competitive inhibitor of choline kinase-α (Chok-α) by targeting the choline binding site; significantly increases LC3II expression in MCF-7 and MCF-7/TAM cells, increases the size and number of autophagosome, causes MCF-7 and MCF-7/TAM cells to a slight increase in p62; suppresses MAPK and PI3K/AKT signaling, disrupts actin cytoskeletal organization, and reduces plasma membrane ruffling; significantly decreases tumor growth in a lung tumor xenograft mouse model, suppresses tumor phosphocholine, and diminishes activating phosphorylations of ERK and AKT in vivo.

Pathway : Others

Target : ChoK

Receptor : ChoK

Solubility : —

SMILES : CCC1=CC=C(C=C1)C2=NC(=NN2)SCC(=O)NC3=CC(=CC(=C3)C)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Clem BF, et al. Oncogene. 2011 Jul 28;30(30):3370-80. | 2. Kim HS, et al. PLoS One. 2015 Oct 23;10(10):e0141110. | 3. Wong MT, et al. J Virol. 2016 Sep 29;90(20):9075-95.