

Product Name : P62-mediated mitophagy inducer

Synonyms : PMI

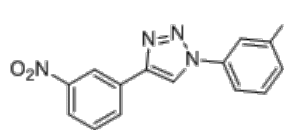
Cat No. : M12772

CAS Number : 1809031-84-2

Molecular Formula : C₁₄H₉IN₄O₂

Formula Weight : 392.16

Chemical Name : 1-(3-iodophenyl)-4-(3-nitrophenyl)-1H-1,2,3-triazole



Description : P62-mediated mitophagy inducer (PMI) is a small molecule p62-mediated mitophagy inducer that activates mitophagy without recruiting Parkin or collapsing membrane potential and retains activity in cells devoid of a fully functional PINK1/Parkin pathway; induces doubling NQO1 activity at 1 uM, and upregulates Nrf2 and ARE-dependent antioxidant genes; increases the expression and signaling of the autophagic adaptor molecule P62/SQSTM1 and forces mitochondria into autophagy; disrupts the Nrf2-Keap1 interaction.

Pathway : Autophagy

Target : Mitophagy

Receptor : Mitophagy

Solubility : —

SMILES : C1=CC(=CC(=C1)[N+](=O)[O-])C2=CN(N=N2)C3=CC(=CC=C3)I

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. East DA, et al. Chem Biol. 2014 Nov 20;21(11):1585-96. | 2. Bertrand HC, et al. J Med Chem. 2015 Sep 24;58(18):7186-94. | 3. Holmström KM, et al. Curr Opin Toxicol. 2016 Dec; 1:80-91.