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**Product Data Sheet**

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Product Name: RO-5963  
Cat. No.: GC37549

**Chemical Properties**

Cas. No. 1416663-77-8

SMILES OCC(CO)NC(C(C1=CC(F)=C(F)C=C1)N2C(/C(=O)N2)=O)C(C3=CC=C4C(=O)N(C3)C4)=O

Formula  $C_{24}H_{21}ClF_2N_4O_5$  M.Wt 518.9

Solubility Soluble in DMSO Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

**Background**

RO-5963 is a dual p53-MDM2 and p53-MDMX inhibitor with IC50s of ~17 nM and ~24 nM, respectively[1]. IC50: ~17 nM (p53-MDM2), ~24 nM (p53-MDMX)[1]

RO-5963 (10-20 μM; 48 hours) shows much higher apoptotic activity than Nutlin in both MCF7 and ZR75-30 cell lines[1]. RO-5963 (10 μM, 24 hours) effectively activates p53 and elevates p21 and MDM2 levels[1]. Apoptosis Analysis[1] Cell Line: ZR75-30, MCF7 cells

[1]. Graves B, et al. Activation of the p53 pathway by small-molecule-induced MDM2 and MDMX dimerization. Proc Natl Acad Sci U S A. 2012 Jul 17;109(29):11788-93.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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