

Product Name	: Y16
Synonyms	: RhoA-IN-Y16; Y16
Cat No.	: M18545
CAS Number	: 429653-73-6
Molecular Formula	: C ₂₄ H ₂₀ N ₂ O ₃
Formula Weight	: 384.43
Chemical Name	: (E)-4-(3-((3-methylbenzyl)oxy)benzylidene)-1-phenylpyrazolidine-3,5-dione
Description	Y16, also known as RhoA-IN-Y16, is a RhoA inhibitor. Y16 blocks the binding of LARG, a DBL-family Rho guanine nucleotide exchange factor, with Rho (K _d = 80 nM). Y16 specifically inhibits LARG catalyzed activation of RhoA and RhoA signaling pathways. Y16 blocks the growth and migration of MCF7 breast cancer cells.
Pathway	: PI3K/Akt/mTOR signaling
Target	: mTOR
Receptor	: Rho GEFs
Solubility	: DMSO : 25 mg/mL 65.03 mM; H ₂ O : < 0.1 mg/mL
SMILES	: <chem>Cc1cc(ccc1)COc1cccc(c1)C=C1C(=O)NN(C1=O)c1ccccc1</chem>
Storage	: (-20°C)
Stability	: ≥ 2 years
Reference	:

1. Yoneda T, et al. The antiproliferative effects of tyrosine kinase inhibitors tyrphostins on a human squamous cell carcinoma in vitro and in nude mice. Cancer Res. 1991 Aug 15;51(16):4430-5.

