MOLNOVA
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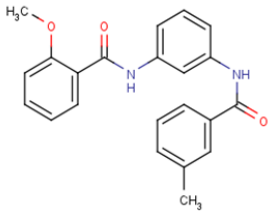
Datasheet (Version 1.0)

Product Name	:	ML365
Synonyms	:	ML365; ML-365; ML 365
Cat No.	:	M19282
CAS Number	:	947914-18-3
Molecular Formula	:	C22H20N2O3
Formula Weight	:	360.41
Chemical Name	:	2-Methoxy-N-[3-[(3-methylbenzoyl)amino]phenyl]benzamide
Description	:	ML365 is a potent and selective K2P3.1 TASK-1 channel blocker. ML365 blocks TASK1 channels in both the thallium influx fluorescent assay (IC50 = 4 nM) and an automated electrophysiology assay (IC50 = 16 nM). Based on potency differences, it possesses more than 60-fold selectivity for inhibition of TASK1 over a closely-related, two-pore domain potassium channel, TASK3. ML365 displays little or no inhibition at 30 μM of more distantly related potassium channels, Kir2.1, potassium voltage-gated channel, KQT-like subfamily, member 2 (KCNQ2), and human ether-a go-go-related gene (hERG). Based on these criteria, ML365 is a best-in-class probe and is a useful pharmacological probe for in vitro studies of TASK1 function and in further studies aimed at developing therapeutic intervention.
Pathway	:	Angiogenesis
Target	:	CDK
Receptor	:	TASK-1
Solubility	:	DMSO : ≥ 100 mg/mL 277.46 mM H2O : < 0.1 mg/mL
SMILES	:	COc1ccccc1C(=O)Nc1cccc(NC(=O)c2cccc(C)c2)c1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1.Zou B, et al. ML365: Development of Bis-Amides as Selective Inhibitors of the KCNK3/TASK1 Two Pore Potassium Channel. Probe Reports from the NIH Molecular Libraries Program.