

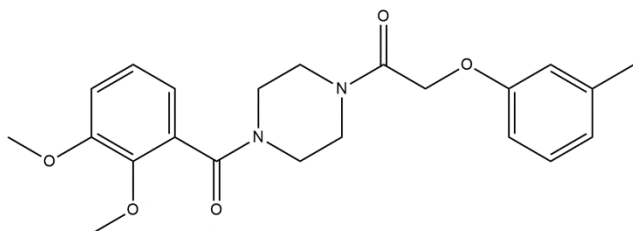
MS37452

08/19

ALTERNATE NAMES: 1-[4-(2,3-dimethoxybenzoyl)piperazin-1-yl]-2-(3-methylphenoxy)ethanone; 1-(2,3-dimethoxybenzoyl)-4-[(3-methylphenoxy)acetyl]piperazine; 1-(4-(2,3-Dimethoxybenzoyl)piperazin-1-yl)-2-(m-tolyloxy)ethanone; 1-[4-[(2,3-dimethoxyphenyl)carbonyl]piperazin-1-yl]-2-(3-methylphenoxy)ethanone

CATALOG #: B2851-1 1 mg
B2851-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₂H₂₆N₂O₅

MOLECULAR WEIGHT: 398.45

CAS NUMBER: 423748-02-1

APPEARANCE: A crystalline solid

PURITY: ≥98%

SOLUBILITY: ~30 mg/ml in ethanol, DMSO and DMF

DESCRIPTION: MS37452 is a competitive inhibitor of CBX7 (Chromobox homolog 7) chromodomain binding to trimethylated lysine 27 of histone 3 (H3K27me3). It inhibits CBX7-H3K27me3 binding with a K_i of 43.0 μ M. At 250 μ M, it derepresses transcription of Polycomb repressive complex target gene p16/CDKN2A by displacing CBX7 binding to the INK4A/ARF locus in PC3 prostate cancer cells.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: Ren, C., Morohashi, K., Plotnikov, A.N., et al. Small-molecule modulators of methyl-lysine binding for the CBX7 chromodomain. *Chemistry & Biology* 22, 161-168 (2015).

RELATED PRODUCTS:

UNC-3866 (Cat. No. B2361)
 CBX1 Antibody (Cat. No. 6146)
 CBX5 Antibody (Cat. No. 6148)
 SGC-CBP30 (Cat. No. 9554)
 PFI-1 (Cat. No. 2203)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*