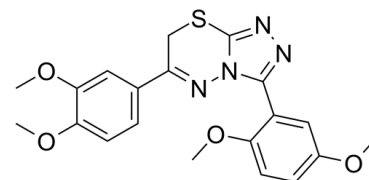


Data Sheet

Product Name:	ML-030
Cat. No.:	CS-7585
CAS No.:	1013750-77-0
Molecular Formula:	C ₂₀ H ₂₀ N ₄ O ₄ S
Molecular Weight:	412.46
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Solubility:	DMSO : 50 mg/mL (121.22 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

ML-030 is a potent **PDE4** inhibitor, with **IC₅₀** of 6.7 nM, 12.9 nM, 48.2 nM, 37.2 nM, 452 nM and 49.2 nM for PDE4A, PDE4A1, PDE4B1, PDE4B2, PDE4C1, and PDE4D2, respectively. **IC₅₀ & Target:** IC₅₀: 6.7 nM (PDE4A), 12.9 nM (PDE4A1), 48.2 nM (PDE4B1), 37.2 (PDE4B2) nM, 452 (PDE4C1) nM, 49.2 (PDE4D2) nM^[1] **In Vitro:** ML-030 is potent in cell-based assay with an **EC₅₀** value of 18.7 nM^[1].

References:

[1]. Skoumbourdis AP, et al. Exploration and optimization of substituted triazolothiadiazines and triazolopyridazines as PDE4 inhibitors. Bioorg Med Chem Lett. 2009 Jul 1;19(13):3686-92.

CAIndexNames:

7H-1,2,4-Triazolo[3,4-b][1,3,4]thiadiazine, 3-(2,5-dimethoxyphenyl)-6-(3,4-dimethoxyphenyl)-

SMILES:

COC1=CC=C(C2=NN3C(SC2)=NN=C3C4=CC(OC)=CC=C4OC)C=C1OC

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

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