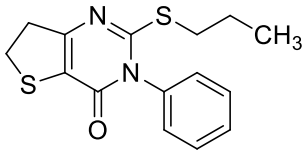
Catalog # 10-1408
BC-11-38
CAS# 686770-80-9
6,7-Dihydro-3-phenyl-2-(propylthio)thieno[3,2-d]pyrimidin-4(3H)one
Lot # X105404



A potent and selective inhibitor of phosphodiesterase PDE11 (IC_{50}=0.28 μM).[1] IC_{50}s for PDE1-10 are greater than 100 μM. Restores the ability of $p54^{nrb}$ / $NONO^{KD}$ cells to generate cAMP in response to ACTH stimulation and the production of cortisol and DHEA in response to cAMP signaling.[2]

1) Ceyhan *et al*. (2012), *Identification of biologically active PDE11-selective inhibitors using a yeast-based high-throughput screen*; Chem. Biol., **19** 155
2) Lu and Sewer (2015), *p54nrb/NONO regulates cyclic AMP-dependent glucocorticoid production by modulating phosphodiesterase mRNA splicing and degradation*; Mol. Cell. Biol. **35** 1223

PHYSICAL DATA

Molecular Weight:	304.44
Molecular Formula:	$C_{15}H_{16}N_2OS_2$
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 14 mg/ml with warming)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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