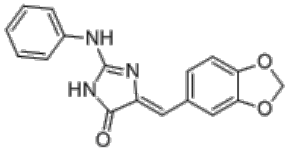
Product Name	:	Leucettine L41
Synonyms	:	Leucettine L41; Leucettine-L41; LeucettineL41
Cat No.	:	M10457
CAS Number	:	112978-84-3
Molecular Formula	:	C17H13N3O3
Formula Weight	:	307.31
Chemical Name	:	(5Z)-5-(1,3-Benzodioxol-5-ylmethylene)-3,5-dihydro-2-(phenylamino)-4H-imidazol-4-one
Description	:	A novel potent cdc2-like kinase (CLKs) and DYRKs inhibitor with IC50 of 40, 35 and 15 nM for DYRK1A, DYRK2 and CLK1, respectively; inhibits the phosphorylation of serine/arginine-rich proteins (SRp), a family of proteins regulating pre-RNA splicing, modulates alternative pre-mRNA splicing in cell-based reporting system; induces mTOR-dependent autophagy, prevents Aβ25-35-induced memory impairments and neurotoxicity in the mouse hippocampus.
Pathway	:	Cell Cycle/DNA Damage
Target	:	CLK
Receptor	:	CLK
Solubility	:	——
SMILES	:	O=C1NC(NC2=CC=CC=C2)=N/C1=C\C3=CC=C(OCO4)C4=C3
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Fant X, et al. Mol Pharmacol. 2014 Mar;85(3):441-50.| 2. Naert G, et al. Eur Neuropsychopharmacol. 2015 Nov;25(11):2170-82.| 3. Debdab M, et al. J Med Chem. 2011 Jun 23;54(12):4172-86.| 4. Tahtouh T, et al. J Med Chem. 2012 Nov 8;55(21):9312-30.

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