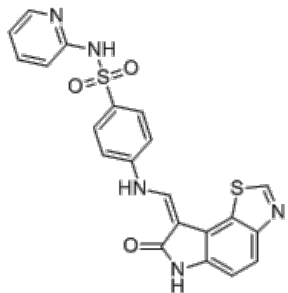


Product Name	: GW-8510	
Synonyms	: GW8510;GW 8510	
Cat No.	: M13542	
CAS Number	: 222036-17-1	
Molecular Formula	: C ₂₁ H ₁₅ N ₅ O ₃ S ₂	
Formula Weight	: 449.51	
Chemical Name	4-[[[(6,7-Dihydro-7-oxo-8H-pyrrolo[2,3-g]benzothiazol-8-ylidene)methyl]amino]-N-2-pyridinylbenzenesulfonamide	
Description	GW-8510 (GW8510) is apotent, selective inhibitor of CDK2 with IC ₅₀ of 10 nM; displays weak inhibition for CDK1 and CDK4 (IC ₅₀ =110 and 130 nM, respectively) in vitro biochemical assays; only inhibits CDK5 on cultured neurons; downregulates the expression of XIAP and no detectable effect on the expression of Bax, Bak, or Bcl2; also demonstrates neuroprotective ability in MN9D cells in the presence of 1-methyl-4-phenylpyridium (MPP(+)).	
Pathway	: Angiogenesis	
Target	: CDK	
Receptor	: CDK	
Solubility	: —	
SMILES	: O=S(C1=CC=C(N/C=C2C(NC3=C12C(SC=N4)=C4C=C3)=O)C=C1)(NC5=NC=CC=C5)=O	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Johnson K, et al. J Neurochem. 2005 May;93(3):538-48. 2. Davis ST, et al. Science. 2001 Jan 5;291(5501):134-7. Retraction. [Science. 2002] 3. Wimalasena NK, et al. ACS Chem Neurosci. 2016 Jul 20;7(7):857-63.