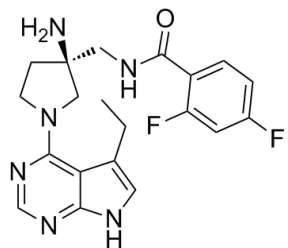


Product Name	: AKT inhibitor	
Synonyms	: AKT protein kinase inhibitor	
Cat No.	: M10037	
CAS Number	: 1004990-28-6	
Molecular Formula	: C ₂₀ H ₂₂ F ₂ N ₆ O	
Formula Weight	: 400.43	
Chemical Name	Benzamide, N-[[[(3S)-3-amino-1-(5-ethyl-7H-pyrrolo[2,3-d]pyrimidin-4-yl)-3-pyrrolidinyl]methyl]-2,4-difluoro-	
Description	A broadly selective, potent, ATP-competitive Akt kinase inhibitor with IC ₅₀ of 0.5 nM(biochemical assay), and 0.31 nM (cell function assay); shows >900-fold selectivity over PKA; excellent PK profiles and effective in in vivo models of xenograft tumor.	
Pathway	Cytoskeleton/Cell Adhesion Molecules	
Target	Akt	
Receptor	Akt	
Solubility	10 mM in DMSO	
SMILES	<chem>O=C(NC[C@]1(N)CN(C2=C3C(NC=C3CC)=NC=N2)CC1)C4=CC=C(F)C=C4F</chem>	
Storage	(-20°C)	
Stability	≥ 2 years	
Reference	:	

1. Freeman-Cook KD, et al. J Med Chem. 2010 Jun 24;53(12):4615-22. 2. Chen SF, et al. J Mol Model. 2013 Nov;19(11):5097-112.