

Product Information

PKA inhibitor, KT 5823, Purity $\geq 98\%$

Cat. No.: X24-09-YM1382

Size: 0.1 mg; 0.2 mg; 0.5 mg; 1 mg

MDL: MFCD09878278

CAS Number: 126643-37-6

Compound CID: 108152

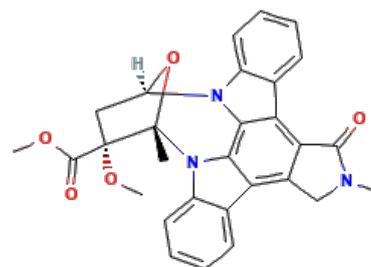
Synonym: 126643-37-6; KT5823; KT-5823; Methyl

(15*S*,16*R*,18*R*)-16-methoxy-4,15-dimethyl-3-oxo

-28-oxa-4,14,19-triazaoctacyclo[12.11.2.115,18.02,6.07,27.08,13.019,26.020,25]octac

osa-1,6,8,10,12,20,22,24,26-nonaene-16-carboxylate; PKA inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	KT 5823 is a potent, selective inhibitor of cGMP-dependent protein kinase. The molecular weight of the compound is 495.53, and its molecular formula is $C_{29}H_{25}N_3O_5$. It targets the PKA and PKC.
Molecular Weight	495.53
Molecular Formula	$C_{29}H_{25}N_3O_5$
Targets	PKA
IUPAC Name	Methyl (15 <i>S</i> ,16 <i>R</i> ,18 <i>R</i>)-16-methoxy-4,15-dimethyl-3-oxo -28-oxa-4,14,19-triazaoctacyclo[12.11.2.115,18.02,6.07,27.08,13.019,26.020,25]octacosa-1,6,8,10,12,20,22,24,26-nonaene-16-carboxylate
InChI	InChI=1S/C29H25N3O5/c1-28-29(36-4,27(34)35-3)13-20(37-28)31-18-11-7-5-9-15(18)22-23-17(14-30(2)26(23)33)21-16-10-6-8-12-19(16)32(28)25(21)24(22)31/h5-12,20H,13-14H2,1-4H3/t20-,28+,29+/m1/s1
InChI Key	QTYMDECKVKSGSM-YMUMJAELSA-N
Canonical SMILES	CC12C(CC(O)N3C4=CC=CC=C4C5=C6C(=C7C8=CC=CC=C8N2C7=C53)CN(C6=O)C)(C(=O)OC)OC
Isomeric SMILES	CC[C@H]1CN2CC[C@H]1C[C@@H]2[C@H](C3=C4C=C(C=CC4=NC=C3)OC)O
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.



Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.
Quality Level	Research grade
Applications	KT 5823 can be studied extensively for its potential therapeutic applications in the treatment of cardiovascular and neurological research.
Storage	Store at -20°C, and keep desiccated.
