

A 419259, GMP Grade

Cat. No. A 419259-18 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A 419259 GMP is the GMP grade A 419259, inducing cell apoptosis. GMP-grade small molecules can be used as auxiliary reagents in cell therapy.
Description	A 419259 (RK-20449) is a broad-spectrum pyrrole-pyrimidine inhibitor targeting Src, Lck, and Lyn with IC50s of 9 nM, <3 nM, and <3 nM, respectively.
Form	Solid, White to light yellow
Target	Src; Apoptosis
In Vitro	A419259 is a second-generation pyrrolopyrimidine that can block the proliferation of CML cell lines and induce apoptosis. It induces apoptosis in K-562 cells and inhibits the proliferation of Meg-01 (IC50 = 0.1 μM). In the absence of IL-3, A-419259 strongly inhibits the proliferation of DAGM/Bcr-Abl cells (IC50 = 0.1-0.3 μM). A-419259 also inhibits overall SFK activity in CML cell lines and can block the activation of Src kinase (IC50 = 0.1-0.3 μM). A 419259 GMP (1 μM; 16 h) inhibits the activity of endogenous SFK (c-Src and Lck), thereby inhibiting Src-driven differentiation of mES cells into primitive ectoderm-like cells. A 419259 GMP (0.3, 1 μM; 5 days) has no effect on the undifferentiated colony morphology of hES cells grown in mTeSR medium.
Solubility Data	DMSO: 100 mg/mL (207.20 mM; Need ultrasonic and warming)
IC50 & Target	IC50: 9 nM (Src), <3 nM (Lck), <3 nM (Lyn), 3 μM (Abl)

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CAS	364042-47-7
Formula	C ₂₉ H ₃₄ N ₆ O
Molecular Mass	482.63
Storage	4 centigrade, sealed storage, away from moisture and light
GENE INFORMATION	
Pathway	Protein Tyrosine Kinase/RTK; Apoptosis
Synonyms	A 419259; RK-20449

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