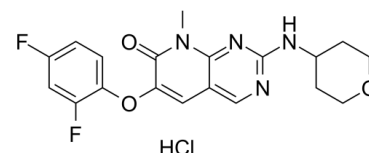


Data Sheet

Product Name:	R1487 (Hydrochloride)
Cat. No.:	CS-5860
CAS No.:	449808-64-4
Molecular Formula:	C ₁₉ H ₁₉ ClF ₂ N ₄ O ₃
Molecular Weight:	424.83
Target:	Autophagy; p38 MAPK
Pathway:	Autophagy; MAPK/ERK Pathway
Solubility:	DMSO : 20.83 mg/mL (49.03 mM; Need ultrasonic); H ₂ O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

R1487 (Hydrochloride) is highly potent and highly selective inhibitors of p38 α . target: p38 α ; R1487 (Hydrochloride) potently inhibits cytokine production in a variety of in vitro and in vivo models.[1] R1487 (Hydrochloride) inhibits production of TNFR by human monocytic cells (THP-1) and inhibits production of IL-1 β in human whole blood (HWB) induced by LPS.[1]

References:

[1]. Goldstein DM et al. Discovery of 6-(2,4-difluorophenoxy)-2-[3-hydroxy-1-(2-hydroxyethyl)propylamino]-8-methyl-8H-pyrido[2,3-d]pyrimidin-7-one (pamapimod) and 6-(2,4-difluorophenoxy)-8-methyl-2-(tetrahydro-2H-pyran-4-ylamino)pyrido[2,3-d]pyrimidin-7(8H)-one (R1487) as orally bioavailable and highly selective inhibitors of p38 α mitogen-activated protein kinase. J Med Chem. 2011 Apr 14;54(7):2255-65.

CAIndexNames:

Pyrido[2,3-d]pyrimidin-7(8H)-one, 6-(2,4-difluorophenoxy)-8-methyl-2-[(tetrahydro-2H-pyran-4-yl)amino]-, hydrochloride (1:1)

SMILES:

O=C1C(OC2=CC=C(F)C=C2F)=CC3=CN=C(NC4CCOCC4)N=C3N1C.Cl

Caution: Product has not been fully validated for medical applications. For research use only.

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