



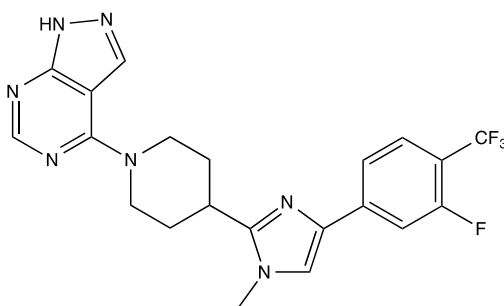
Catalog # 10-1395

LYS6K2

1082949-67-4

4-(4-(4-(4-fluoro-3-(trifluoromethyl)phenyl)-1-methyl-1H-imidazol-2-yl)piperidin-1-yl)-1H-pyrazolo[3,4-d]pyrimidine

Lot # X104190



A selective inhibitor of the p70 ribosomal S6 kinase (S6K)1. Blocks the phosphorylation of S6 at concentrations as low as 0.1-0.3 μ M with no activity at GSK3 β and Erk1/2 at 10 μ M². Useful tool to dissect insulin receptor signaling pathways and was employed to show that the action of mTORC1 on SREB P-1c expression is not mediated by S6K2. Cell permeable.

- 1) Fenton *et al.* (2011), *Functions and regulation of the 70kDa ribosomal S6 kinases*; Int. J. Biochem. Cell Biol., **43** 47
- 2) Li *et al.* (2010), *Bifurcation of insulin signaling pathway in the rat liver: mTORC1 required for stimulation of lipogenesis, but no inhibition of gluconeogenesis*; Proc. Natl. Acad. Sci. USA, **107** 3441

PHYSICAL DATA

Molecular Weight:	445.42
Molecular Formula:	C ₂₁ H ₁₉ F ₄ N ₇
Purity:	97% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 1 mg/ml) or DMF (up to 3 mg/ml with warming)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 3 years from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

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