

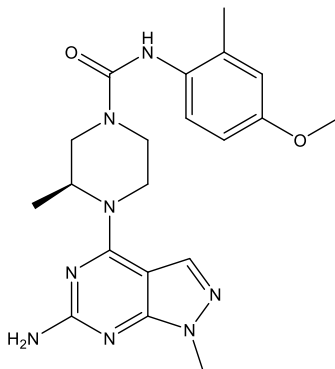
**Catalog # 10-4857**

**UCB9608**

CAS# 1616413-96-7

(3S)-4-(6-Amino-1-methylpyrazolo[3,4-d]pyrimidin-4-yl)-N-(4-methoxy-2-methylphenyl)-3-methylpiperazine-1-carboxamide

Lot # FBS4002



UCB9608 is a potent ( $IC_{50} = 5$  nM), highly selective, and orally bioavailable inhibitor of the phosphatidylinositol kinase  $PI4KIII\beta$ .<sup>1</sup> It acts as a potent immunosuppressive agent ( $IC_{50} = 37$  nM human mixed lymphocyte reaction (HuMLR) assay) and was able to significantly prolong heterotopic allograft retention in a mouse model of cardiac allograft rejection. UCB9608 preserved graft tolerance in mice carrying a heterotopic allogeneic heart challenged with host-type melanoma and subsequently treated with antitumor immunotherapy.<sup>2</sup> UCB9608 promoted a T cell regulatory phenotype over an effector phenotype.<sup>3</sup>

- 1) Reuberson *et al.* (2018), *Discovery of a Potent, Orally Bioavailable  $PI4KIII\beta$  Inhibitor (UCB9608) Able to Significantly Prolong Allogeneic Organ Engraftment in Vivo*; J. Med. Chem. **61** 6705
- 2) Dang *et al.* (2022), *Establishment of operational tolerance to sustain antitumor immunotherapy*; J. Heart Lung Transplant. **41** 568
- 3) Li *et al.* (2021), *A LAT-Based Signaling Complex in the Immunological Synapse as Determined with Live Cell Imaging Is Less Stable in T Cells with Regulatory Capability*; Cells **10** 418

**PHYSICAL DATA**

Molecular Weight:	410.48
Molecular Formula:	$C_{20}H_{26}N_8O_2$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at $-20^{\circ}C$ for up to 2 years from the date of purchase. Solutions in DMSO may be stored at $-20^{\circ}C$ for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.