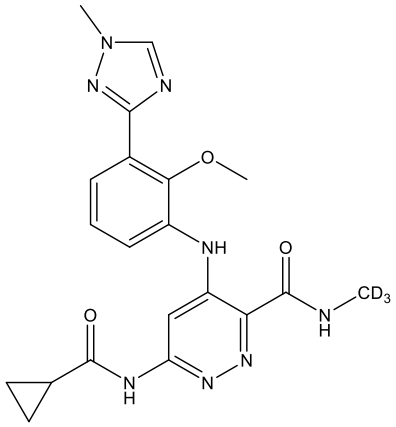
Catalog # 10-4756
Deucravacitinib

CAS# 1609392-27-9

6-(Cyclopropanecarbonylamino)-4-[2-methoxy-3-(1-methyl-1,2,4-triazol-3-yl)anilino]-N-(trideuteriomethyl)pyridazine-3-carboxamide; BMS-986165

Lot # FBS2206



Deucravacitinib is very potent and selective allosteric inhibitor of tyrosine kinase 2 (TYK2). It binds to and is selective for the TYK2 pseudokinase domain (JH2, IC_{50} = 0.2 nM), with no activity against canonical JH1 domain of TYK2, JAK1,2, or 3.[1] It is 5-fold less active against the JAK1 JH2 domain (IC_{50} = 1 nM). Deucravacitinib blocked signaling and functional responses in human T_H17, T_H1, B cells, and myeloid cells and displayed robust efficacy *in vitro* and *in vivo* in autoimmune disease animal models.[2]

1) Wrobleski *et al*. (2019), *Highly Selective Inhibition of Tyrosine Kinase 2 (TYK2) for the Treatment of Autoimmune Diseases: Discovery of the Allosteric Inhibitor BMS-986165*; J. Med. Chem. **62** 8973
2) Burke *et al*. (2019), *Autoimmune pathways in mice and humans are blocked by pharmacological stabilization of the TYK2 pseudokinase domain*; Sci. Transl. Med. **11** eaaw1736

PHYSICAL DATA

Molecular Weight:	425.47
Molecular Formula:	$C_{20}H_{19}D_3N_8O_3$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (25 mg/mL with warming); Ethanol (20 mg/mL)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com