

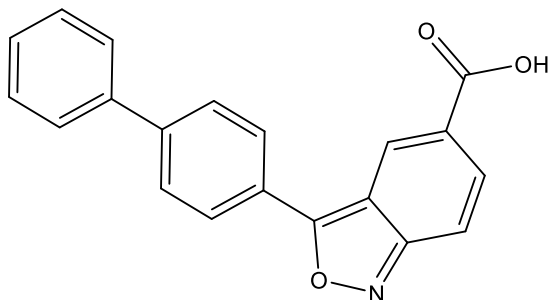
**Catalog # 10-4080**

**UNC7467**

CAS# 2922283-43-8

3-(4-Phenylphenyl)-2,1-benzoxazole-5-carboxylic acid; 3-([1,1'-Biphenyl]-4-yl)benzo[c]isoxazole-5-carboxylic acid

Lot # FBA8081



UNC7467 is a potent inhibitor of inositol hexakisphosphate kinase (IP6K) – the isoform IP3K1 regulates metabolism, promotes insulin secretion from  $\beta$  cells, attenuates certain aspects of insulin signaling, and reduces whole-body energy expenditure by inhibiting adipocyte thermogenesis, thus making it an attractive target for treatment of obesity and obesity-induced metabolic dysfunction. It is selective for IP6K1 and 2 over IP6K3 ( $IC_{50}$ s = 8.9 nM, 4.9 nM, and 1320 nM respectively).  $EC_{50}$  = 1.0  $\mu$ M and 0.24  $\mu$ M at 3hr and 18 hr respectively in intact HCT116 cells ( $[^{33}P]$ -Pi efflux). Selective against a panel of 30 protein kinases and 5 CYP isoforms. UNC7467 improved glycemic profiles, ameliorated hepatic steatosis, and reduced weight gain without altering food intake in diet-induced obese mice.

- 1) Zhou *et al.* (2022), *Development of Novel IP6K Inhibitors for the Treatment of Obesity and Obesity-Induced Metabolic Dysfunctions*; J. Med. Chem. **65** 6869

**PHYSICAL DATA**

Molecular Weight:	315.33
Molecular Formula:	$C_{20}H_{13}NO_3$
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (15 mg/ml)
Physical Description:	Yellow 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.

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