

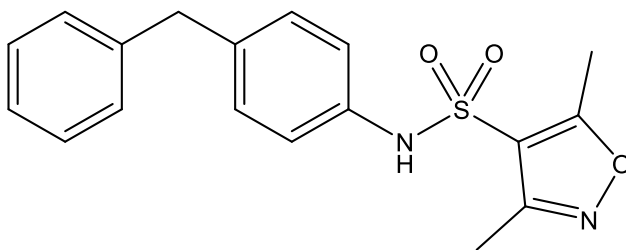
Catalog #10-4060

P053

1022417-69-1

3,5-Dimethyl-N-[4-(phenylmethyl)phenyl]-4-isoxazolesulfonamide

Lot # FBA9049



P053 is a selective inhibitor of protein phosphatase 5 (PP5) – $IC_{50} = 706 \text{ nM}$.¹ PP5 regulates signaling cascades that are responsible for tumor initiation, progression, and metastasis and is thus an interesting anticancer target. P053 induced apoptosis in 786-O renal carcinoma cells. Inhibition of PP5 by P053 prevents deactivation of the death effector protein FADD and activates the extrinsic apoptosis pathway complex II.

- 1) Ahanin *et al.* (2023), *Catalytic inhibitor of Protein Phosphatase 5 activates the extrinsic apoptotic pathway by disrupting complex II in kidney cancer*; Cell Chem. Biol. **30** 1223

PHYSICAL DATA

Molecular Weight:	342.41
Molecular Formula:	C ₁₈ H ₁₈ N ₂ O ₃ S
Purity:	>98%
	NMR: (Conforms)
Solubility:	DMSO (>50 mg/ml)
Physical Description:	Beige 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.

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