

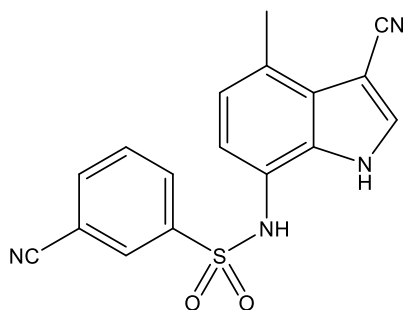
Catalog # 10-3935

E7820

CAS# 289483-69-8

N-(3-Cyano-4-methyl-1H-indol-7-yl)-3-cyanobenzenesulfonamide

Lot # FBA9145



E7820 is an angiogenesis inhibitor that suppresses expression of integrins $\alpha 2$, $\alpha 3$, $\alpha 5$, and $\beta 1$.¹ Broad-spectrum antitumor and antiangiogenic effects are mainly mediated *via* integrin $\alpha 2$ suppression.² E7820 has been identified as a molecular glue that induces proteasomal degradation of the U2AF-related splicing factor CAPER α (RBM39) *via* CRL4^{DCAF15} mediated ubiquitination in human cancer cell lines.^{3,4} E7820 has also been shown to induce degradation of the aryl hydrocarbon receptor nuclear translocator (ARNT), a protein essential in maintaining cellular homeostasis in response to environmental stress.⁵

- 1) Funahashi *et al.* (2002), *Sulfonamide derivative, E7820, is a unique angiogenesis inhibitor suppressing an expression of integrin alpha2 subunit on endothelium*; *Cancer Res.* **62** 6116
- 2) Semba *et al.* (2004), *An angiogenesis inhibitor E7820 shows broad-spectrum tumor growth inhibition in a xenograft graft: possible value of integrin alpha2 on platelets as a biological marker*; *Clin. Cancer Res.* **10** 1430
- 3) Uehara *et al.* (2017), *Selective degradation of splicing factor CAPER α by anticancer sulfonamides*; *Nat. Chem. Biol.* **13** 675
- 4) Faust *et al.* (2020), *Structural complementarity facilitates E7820-mediated degradation of RBM39 by DCAF15*; *Nat. Chem. Biol.* **16** 7
- 5) Kim *et al.* (2020), *Aryl Sulfonamides Induce Degradation of Aryl Hydrocarbon Receptor Nuclear Translocator through CRL4^{DCAF15} E3 Ligase*; *Mol. Cells* **43** 935

PHYSICAL DATA

Molecular Weight:	336.37
Molecular Formula:	C ₁₇ H ₁₂ N ₄ O ₂ S
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/ml)
Physical Description:	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.

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