

Product Name: E 7820

Catalog No.: 6785

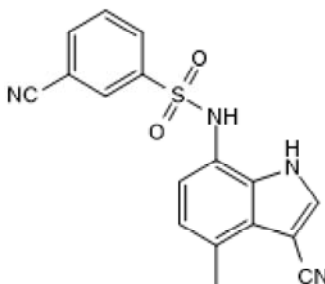
Batch No.: 1

CAS Number: 289483-69-8

IUPAC Name: 3-Cyano-*N*-(3-cyano-4-methyl-1*H*-indol-7-yl)benzenesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂N₄O₂S
Batch Molecular Weight: 336.37
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
ethanol to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.7	3.6	16.66
Found	60.58	3.67	16.46

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

α_2 integrin inhibitor. Inhibits angiogenesis in vitro (IC_{50} = 0.11 - 0.25 μ M). Also inhibits growth of human colorectal cancer cell lines. Enhances efficacy of erlotinib in a non-small-cell lung cancer xenograft model. Also acts as a molecular glue to induce proteosomal degradation of mRNA splicing factor RBM39.

Physical and Chemical Properties:

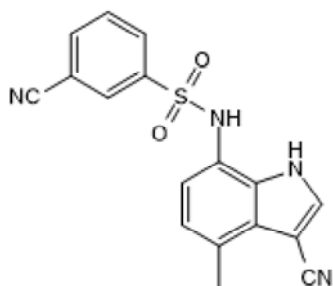
Batch Molecular Formula: C₁₇H₁₂N₄O₂S

Batch Molecular Weight: 336.37

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Uehara et al (2017) Selective degradation of splicing factor CAPER α by anticancer sulfonamides. *Nat.Chem.Biol.* **13** 675. PMID: 28437394 .

Ito et al (2014) Enhanced anti-angiogenic effect of E7820 in combination with erlotinib in epidermal growth factor receptor-tyrosine kinase inhibitor-resistant non-small-cell lung cancer xenograft models. *Cancer Sci.* **105** 1023. PMID: 24841832.

Funahashi et al (2002) Sulfonamide derivative, E7820, is a unique angiogenesis inhibitor suppressing an expression of integrin α_2 subunit on endothelium. *Cancer Res.* **62** 6116.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956