

Product Name: BTT 3033

Catalog No.: 4724

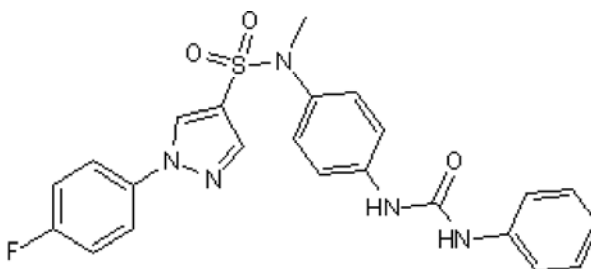
Batch No.: 1

CAS Number: 1259028-99-3

IUPAC Name: 1-(4-Fluorophenyl)-N-methyl-N-[4[[[(phenylamino)carbonyl]amino]phenyl]-1H-pyrazole-4-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₀FN₅O₃S
Batch Molecular Weight: 465.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.52 (Chloroform:Methanol [97:3])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.34	4.33	15.04
Found	59.31	4.3	15.1

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

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Description:

BTT 3033 is a selective inhibitor of integrin $\alpha_2\beta_1$ (EC_{50} = 130 nM for $\alpha_2\beta_1$ binding to collagen I). Binds to the α_2 domain. Exhibits selectivity for $\alpha_2\beta_1$ over integrins $\alpha_3\beta_1$, $\alpha_4\beta_1$, $\alpha_5\beta_1$ and α_v . BTT 3033 inhibits platelet aggregation to collagen I coated capillaries under flow and inhibits binding of α_2 -expressing CHO cells to collagen I under shear stress conditions. Neurogenic and thromboxane A_2 -induced human prostate smooth muscle contraction are also inhibited by BTT 3033. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

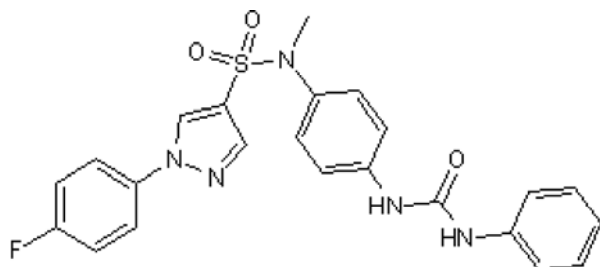
Batch Molecular Formula: $C_{23}H_{20}FN_5O_3S$

Batch Molecular Weight: 465.5

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

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:

Li *et al* (2021) Phosphoproteomics identifies potential downstream targets of the integrin $\alpha_2\beta_1$ inhibitor BTT-3033 in prostate stromal cells. *Ann. Transl. Med.* **9** 1380. PMID: 34733932.

Nissinen *et al* (2012) Novel $\alpha_2\beta_1$ integrin inhibitors reveal that integrin binding to collagen under shear stress conditions does not require receptor preactivation. *J. Cell Biol.* **287** 44694. PMID: 23132859.

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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