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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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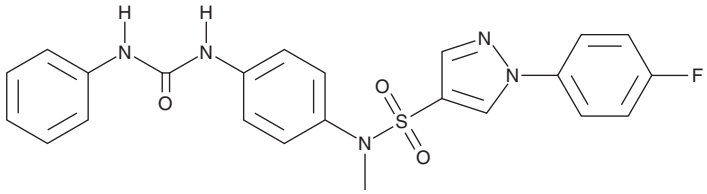
PRODUCT INFORMATION

BTT3033

Item No. 42119

CAS Registry No.:	1259028-99-3
Formal Name:	1-(4-fluorophenyl)-N-methyl-N-[4-[[(phenylamino)carbonyl]amino]phenyl]-1H-pyrazole-4-sulfonamide
MF:	$C_{23}H_{20}FN_5O_3S$
FW:	465.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BTT3033 is supplied as a solid. A stock solution may be made by dissolving the BTT3033 in the solvent of choice, which should be purged with an inert gas. BTT3033 is soluble (≥10 mg/ml) in the organic solvent DMSO.

Description

BTT3033 is an inhibitor of integrin α2β1 (EC_{50} = 130 nM in CHO cells expressing the human receptor).[1] It is 8-fold selective for integrin α2β1 over integrin α1β1, as well as laminin 332, 40 kDa fibronectin, 120 kDa fibronectin, and vitronectin at 130 nM. BTT3033 inhibits the adhesion of platelets in isolated mouse whole blood to collagen I-coated capillaries at a constant shear rate (EC_{50} = 6 µM). *In vivo*, BTT3033 (10 mg/kg, p.o.) decreases lavage fluid leukocyte infiltration in a mouse model of platelet-activating factor-induced air pouch inflammation.[2] It decreases ear thickness in a mouse model of ovalbumin- and alum-induced mouse model of skin hypersensitivity when administered at a dose of 10 mg/kg.

References

1. Nissinen, L., Koivunen, J., Käpylä, J., *et al.* Novel α2β1 integrin inhibitors reveal that integrin binding to collagen under shear stress conditions does not require receptor preactivation. *J. Biol. Chem.* **287(53)**, 44694-44702 (2012).
2. Nissinen, L., Ojala, M., Langen, B., *et al.* Sulfonamide inhibitors of α2β1 integrin reveal the essential role of collagen receptors in in vivo models of inflammation. *Pharmacol. Res. Perspect.* **3(3)**, e00146 (2015).

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