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**Product Data Sheet**

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Product Name: BTT 3033

Cat. No.: GC50075

**Chemical Properties**

Cas. No. 1259028-99-3

SMILES FC1=CC=C(N2N=CC(S(N(C3=CC=C(NC(NC4=CC=CC=C4)=O)C=C3)C)(=O)=O)=C2)C=C1Formula C<sub>23</sub>H<sub>20</sub>FN<sub>5</sub>O<sub>3</sub>S

M.Wt 465.5

Solubility DMSO : 250 mg/mL (537.06 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Selective inhibitor of integrin  $\alpha 2\beta 1$  (EC<sub>50</sub> = 130 nM for  $\alpha 2\beta 1$  binding to collagen I). Binds to the  $\alpha 2$  domain. Exhibits selectivity for  $\alpha 2\beta 1$  over integrins  $\alpha 3\beta 1$ ,  $\alpha 4\beta 1$ ,  $\alpha 5\beta 1$  and  $\alpha v$ . Inhibits platelet aggregation to collagen I coated capillaries under flow. Also inhibits binding of  $\alpha 2$ -expressing CHO cells to collagen I under shear stress conditions.

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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