
Product Data Sheet

Product Name: BMT-090605

Cat. No.: GC64798

Chemical Properties

Cas. No. 1551403-51-0

Formula C₂₁H₂₄N₄O₂ M.Wt 364.44

Solubility 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

BMT-090605 is a potent, selective AAK1 inhibitor, with an IC₅₀ of 0.6 nM. BMT-090605 shows antinociceptive activity. BMT-090605 inhibits BMP-2-inducible protein kinase (BIKE) and Cyclin G-associated kinase (GAK) with IC₅₀s of 45 and 60 nM, respectively[1].

BMT-090605 shows a cellular IC₅₀ of 0.63 ±0.39 nM for AAK1[1].

BMT-090605 (0.3-3 µg/rat; intrathecally at lumbar level L5/L6) causes antinociception by inhibiting AAK1 in the spinal cord[1]. The high dose of BMT-090605 (3 µg/rat) showed efficacy comparable to intrathecal clonidine (3 µg/rat). Exposure measurements from this study indicated that brain and plasma levels of BMT-090605 were <4 nM, whereas measurable levels (90-317 nM) were observed in lumbar spinal cord[1].

[1]. Kostich W, et al. Inhibition of AAK1 Kinase as a Novel Therapeutic Approach to Treat Neuropathic Pain. J Pharmacol Exp Ther. 2016 Sep;358(3):371-86.

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

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