

Product Data Sheet

Product Name: AMZ30
Cat. No.: GC30122

Chemical Properties

Cas. No. 1313613-09-0

SMILES O=S(C1=CC([N+])([O-])=O)=CC=C1)(N2C(/C=C(S(=O)(C3=CC=C(F)C=C3)=O)\C#N)=CC=C2)=O

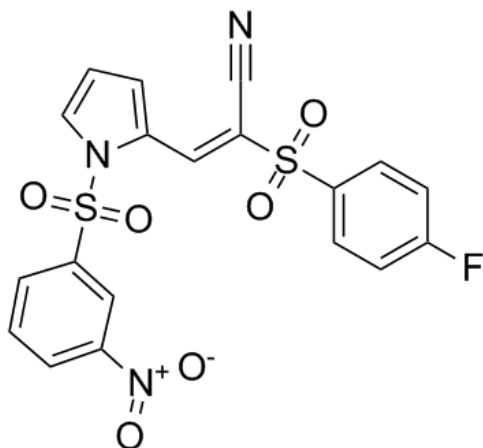
Formula $C_{19}H_{12}FN_3O_6S_2$ M.Wt 461.44

Solubility DMSO : 4.8 mg/mL (10.40 mM); Water : < 0.1 mg/mL (insoluble) 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

AMZ30 is a selective, covalent inhibitors of protein phosphatase methylesterase-1 (PME-1; IC₅₀=600 nM); selectively inactivates PME-1 and reduces the demethylated form of PP2A in living cells. IC₅₀ value: 600 nM [1] Target: PME-1 inhibitor in vitro: AMZ30 showed substantially improved inhibition of PME-1 (IC₅₀ value of 600 nM) with more than 100-fold selectivity relative to other SHs in human cell lysates. Incubation of HEK 293T cells with a concentration range of AMZ30 generated an in situ IC₅₀

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

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value for PME-1 inhibition of 3.5 μM as determined by gel-based ABPP without any observed cross-reactivity with other SHs even at 100 μM compound. Treatment of HEK 293T cells stably overexpressing PME-1 with 28 (20 μM) caused an ~80% reduction in the levels of demethylated PP2A [1].

[1]. Bachovchin DA, et al. Discovery and optimization of sulfonyl acrylonitriles as selective, covalent inhibitors of protein phosphatase methylesterase-1. J Med Chem. 2011 Jul 28;54(14):5229-36.

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