

Product Data Sheet

Product Name: TG11-77 (hydrochloride)

Cat. No.: GC48160

Chemical Properties

Cas. No. 2550393-38-7

SMILES O=C(C1=CN=C(NC2=NC(C)=CC(C)=C2)N=C1)NCCC3=C(C)NC4=C3C=CC=C4.Cl

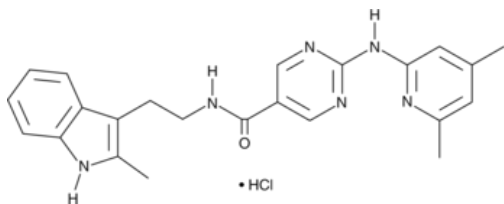
Formula C₂₃H₂₄N₆O.HCl M.Wt 436.9

Solubility DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:2): 0.33 mg/ml 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

TG11-77 is a brain-permeable antagonist of the prostaglandin E₂ (PGE₂) receptor subtype EP₂ (K_B = 9.7 nM).¹ It is selective for EP₂ over DP₁, EP₄, and IP receptors (K_Bs = 7,320, 5,300, and >10,000 nM, respectively). TG11-77 (0.3 and 1 μM) inhibits the expression of genes encoding COX-2, IL-1β, and IL-6 induced by LPS and the EP₂ receptor agonist ONO-AE1-259-01 in mouse BV-2 microglia expressing human EP₂ receptors.

1. Amaradhi, R., Banik, A., Mohammed, S., et al. Potent, selective, water soluble, brain-permeable EP₂ receptor antagonist for use in central nervous system disease models. *J. Med. Chem.* 63(3):1032-1050 (2020)

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

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