

Product Data Sheet

Product Name: TUG-2304

Cat. No.: GC79201

Chemical Properties

Cas. No. 3034674-48-8

Formula $C_{20}H_{20}F_3N_5O_2$ M.Wt 419.4

Solubility DMSO: 100 mg/mL (238.44 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

TUG-2304 is a highly selective free fatty acid receptor 2 (FFA2, GPR43) antagonist that completely suppresses propionate-induced neutrophil migration and respiratory burst. TUG-2304 is applicable to research related to metabolic and inflammatory diseases [1].

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

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In Vivo, TUG-2304 (compound 16l) (5-10 mg/kg; i.v., p.o.; single dose) exhibits favorable pharmacokinetic properties in male BALB/cAnC mice, with an oral bioavailability of 44%^[1].

In Vitro, TUG-2304 (compound 16l) (1 nM-10 μ M) completely inhibits propionate-induced migration of human neutrophils over the concentration range of 1 nM to 10 μ M^[1]. TUG-2304 (100 pM-10 μ M) completely inhibits propionate-induced respiratory burst in human neutrophils, with a pIC₅₀ of 8.24 nM, and its activity is specific to FFA2-mediated activation^[1].

References:

[1]. Valentini A, et al. Discovery of Potent Tetrazole Free Fatty Acid Receptor 2 Antagonists. Journal of medicinal chemistry. 2023 May 11;66(9):6105-6121.

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