
Product Data Sheet

Product Name: AHR antagonist 5 free base

Cat. No.: GC64208

Chemical Properties

Cas. No. 2247950-42-9

Formula C₂₅H₂₄FN₇ M.Wt 441.5

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

AHR antagonist 5 free base is a selective and orally active aryl hydrocarbon receptor (AHR) inhibitor. AHR antagonist 5 free base effectively blocks AHR from translocating from the cytoplasm to the nucleus. AHR antagonist 5 free base is highly selective for AHR over other receptors, transporters, and kinases[1].

AHR antagonist 5 free base (Compound A) potently inhibits AHR activity in human and rodent cell lines (IC₅₀ of ~35-150 nM). In human T cell assays, AHR antagonist 5 free base induces an activated T cell state. AHR antagonist 5 free base inhibits CYP1A1 and interleukin (IL)-22 gene expression and leads to an increase in pro-inflammatory cytokines, such as IL-2 and IL-9[1].

AHR antagonist 5 free base (Compound A) has been evaluated in a series of pharmacological, single-dose and repeated-dose toxicological studies in rodent and non-rodent species including 28-day Good Laboratory Practice (GLP) studies in rat and monkeys. All changes are resolved or resolving after 2 weeks of dosing cessation, except for the testicular changes in rats[1].

[1]. Marta Sanchez-Martin, et al. Ahr inhibitors and uses thereof. WO2021142180A1.

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

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