Product Datasheet

BAY-218

Catalog No. **BP-01978** · CAS **2162982-11-6** · Form **free base** · Physical state **solid** · Color **light yellow to yellow** · Version **1.0** · Revision **2026-09-09**

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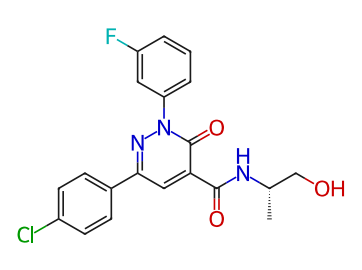
Target	Research area
Aryl Hydrocarbon Receptor	**Inflammation/Immunology; Cancer**

Molecular formula	$C_{20}H_{17}ClFN_3O_3$
Molecular weight	**401.8190**

STRUCTURE



DESCRIPTION

BAY-218 (AHR antagonist 1) is an aryl hydrocarbon receptor (AHR) antagonist. BAY-218 has AHR inhibitory activity with an IC50 of 39.9 nM in in U87 glioblastoma cells. BAY-218 can be used for the research of cancer or conditions with dysregulated immune responses.

BIOLOGICAL ACTIVITY

In Vitro

BAY-218 (example 23) (72 pM-20 μM) has AHR inhibitory activity with an IC50 of 39.9 μM in in U87 glioblastoma cells.

? BAY-218 (1 nM-3 μM) has CYP1A1 inhibitory activity with an IC50 of 70.7 μM in human monocytic U937 cell line.

? BAY-218 (1 μM) reverses KA-induced inhibition of TNFα production by LPS stimulated human monocytes.

In Vivo

BAY-218 (example 23) (p.o; 30 mg/kg; bid) has good anti-tumor effect combinated with aPD-L1.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1]. Ilona Gutcher, Christina Kober, Lars Roese,et al.Abstract 1288: Blocking tumor-associated immune suppression with BAY-218, a novel, selective aryl hydrocarbon receptor (AhR) inhibitor[J].10.1158/1538-7445.AM2019-1288 Published July 2019.

[2]. Norbert Schmees, et al. 3-oxo-2,6-diphenyl-2,3-dihydropyridazine-4-carboxamides. WO2017202816A1.

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