PRODUCT INFORMATION



BAY-2416964

Item No. 36939

CAS Registry No.:	2242464-44-2	\backslash
Formal Name:	6-(4-chlorophenyl)-2,3-dihydro-N-	N—N
	[(1S)-2-hydroxy-1-methylethyl]-2-	
	(1-methyl-1H-pyrazol-4-yl)-3-oxo-	
	4-pyridazinecarboxamide	
MF:	C ₁₈ H ₁₈ CIN ₅ O ₃	N O
FW:	387.8	
Purity:	≥98%	
Supplied as:	A solid	С С С С С С С С С С С С С С С С С С С
Storage:	-20°C	
Stability:	≥4 years	CI · ···

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BAY-2416964 is supplied as a solid. A stock solution may be made by dissolving the BAY-2416964 in the solvent of choice, which should be purged with an inert gas. BAY-2416964 is soluble (≥10 mg/ml) in DMSO and slightly soluble (0.1-1 mg/ml) in ethanol.

Description

BAY-2416964 is an antagonist of the aryl hydrocarbon receptor (AhR; IC_{50} = 22 nM in U87 cells).¹ It decreases the mRNA expression of the AhR target genes CYP1A1 and AHRR induced by the AhR agonist kynurenic acid (Item No. 16792) in LPS-stimulated isolated human monocytes when used at a concentration of 100 nM. BAY-2416964 (30-1,000 nM) increases CD3-, CD28-, and IL-2-induced IFN-γ production in isolated human naïve CD4⁺ T cells. In vivo, BAY-2416964 (30 mg/kg, p.o.) reduces tumor volume, increases CD8⁺ T cell and natural killer (NK) cell tumor infiltration, and decreases GR1⁺ myeloid cell and CD206⁺ M2 macrophage tumor infiltration in a B16/F10-OVA murine melanoma model.

Reference

1. Kober, C., Roewe, J., Schmees, N., et al. Targeting the aryl hydrocarbon receptor (AhR) with BAY 2416964: A selective small molecule inhibitor for cancer immunotherapy. J. Immunother. Cancer 11(11), e007495 (2023).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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