

AKB-6899

Chemical Properties

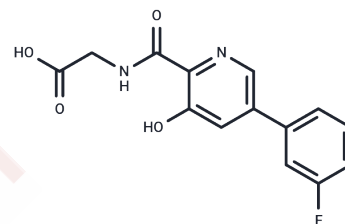
CAS No. : 1007377-55-0

Formula: C₁₄H₁₁FN₂O₄

Molecular Weight: 290.25

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	AKB-6899 is an inhibitor of prolyl hydroxylase domain 3 (PHD3) and increases the soluble form of the VEGF receptor (sVEGFR-1) production from GM-CSF-treated macrophages. AKB-6899 leads to stabilization of HIF-2 α which induces sVEGFR-1 production from tumor-associated macrophages and decreases tumor growth.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase,HIF,VEGFR
In vitro	In murine bone marrow-derived macrophages, AKB-6899 (10 μ M; 24 hours) increases the levels of HIF-2 α protein, with no corresponding increase in HIF-1 α . AKB-6899 shows no effect on HIF-1 α accumulation or VEGF production[1].
In vivo	In C57BL/6 mice injected with B16F10 murine melanoma cells, AKB-6899 (17.5 mg/kg; i. p.) significantly reduces tumor growth[1].

Solubility Information

Solubility	DMSO: 95 mg/mL (327.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (11.37 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4453 mL	17.2265 mL	34.4531 mL
5 mM	0.6891 mL	3.4453 mL	6.8906 mL
10 mM	0.3445 mL	1.7227 mL	3.4453 mL
50 mM	0.0689 mL	0.3445 mL	0.6891 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Roda JM, Wang Y, Sumner LA, Phillips GS, Marsh CB, Eubank TD. Stabilization of HIF-2 α induces sVEGFR-1 production from tumor-associated macrophages and decreases tumor growth in a murine melanoma model. *J Immunol.* 2012 Sep 15;189(6):3168-77. doi: 10.4049/jimmunol.1103817. Epub 2012 Aug 6. PubMed PMID: 22869907; PubMed Central PMCID: PMC3436995.

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