

ONO-7475

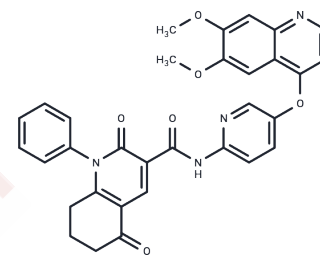
Chemical Properties

CAS No. : 1646839-59-9

Formula: C₃₂H₂₆N₄O₆

Molecular Weight: 562.57

Storage: Store at low temperature
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	ONO-7475 is an inhibitor with high specificity for anexelekt0 and MER tyrosine kinase
Targets(IC50)	TAM Receptor,Trk receptor
In vitro	ONO-7475 sensitized AXL-overexpressing?EGFR-mutant NSCLC cells to the EGFR-TKIs osimertinib and dacomitinib. In addition, ONO-7475 suppressed the emergence and maintenance of EGFR-TKI-tolerant cells[2].
In vivo	Mice fed a diet containing ONO-7475 exhibited significantly longer survival and, interestingly, blocked leukemia cell infiltration in the liver. In summary, ONO-7475 effectively kills acute myeloid leukemia cells?in vitro?and?in vivo?by mechanisms that involve disruption of diverse survival and proliferation pathways[1].
Cell Research	Cell Line:High AXL-expressing cell: PC-9,HCC4011,H1975, PC-9KGR cells. Low AXL-expressing cell: HCC827, HCC4006, and H3255 cells. Concentration:0.0001 μM; 0.001 μM; 0.01 μM; 0.1 μM; 1 μM. Incubation Time:72 hours[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (177.76 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: 1 mg/mL (1.78 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	1.7776 mL	8.8878 mL	17.7756 mL
5 mM	0.3555 mL	1.7776 mL	3.5551 mL
10 mM	0.1778 mL	0.8888 mL	1.7776 mL
50 mM	0.0356 mL	0.1778 mL	0.3555 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

Ruvolo PP, et al. Anexelekt/MER tyrosine kinase inhibitor ONO-7475 arrests growth and kills FMS-like tyrosine kinase 3-internal tandem duplication mutant acute myeloid leukemia cells by diverse mechanisms.

Haematologica. 2017 Dec;102(12):2048-2057.

Okura N, et al. ONO-7475, a Novel AXL Inhibitor, Suppresses the Adaptive Resistance to Initial EGFR-TKI Treatment in EGFR-Mutated Non-Small Lung Cancer. Clin Cancer Res. 2020 Jan 17.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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