

AF-399/42018025

Chemical Properties

CAS No. : 618865-88-6

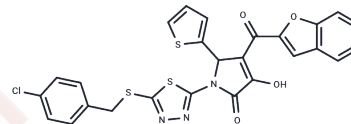
Formula: C₂₆H₁₆ClN₃O₄S₃

Molecular Weight: 566.07

Store at low temperature

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	AF-399/42018025 is a small-molecule antagonist of CC chemokine receptor 4 (CCR4) utilized as a research tool to investigate CCR4-mediated immune cell trafficking, inflammatory signaling, and chemokine-driven disease mechanisms, supporting studies in immunology, oncology, and inflammatory disorder models.
Targets(IC50)	CCR
In vitro	<p>Method: Transgenic and wild-type mice expressing tumor-associated self antigens were immunized with vaccines combined with a small-molecule CCR4 antagonist, and CD8⁺ T-cell responses and tumor growth were evaluated in prophylactic and therapeutic models.</p> <p>Result: The CCR4 antagonist combined with vaccination induced effector CD8⁺ T cells against self antigens and partially inhibited tumor growth, outperforming cyclophosphamide in eliciting anti-self CD8⁺ T-cell responses[1].</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7666 mL	8.8328 mL	17.6657 mL
5 mM	0.3533 mL	1.7666 mL	3.5331 mL
10 mM	0.1767 mL	0.8833 mL	1.7666 mL
50 mM	0.0353 mL	0.1767 mL	0.3533 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

Pere H, Montier Y, Bayry J, Quintin-Colonna F, Merillon N, Dransart E, et al. A CCR4 antagonist combined with vaccines induces antigen-specific CD8+ T cells and tumor immunity against self antigens. *Blood*. 2011 Nov 3;118(18):4853-62.

Arimont M, Sun SL, Leurs R, Smit M, de Esch IJP, de Graaf C. Structural Analysis of Chemokine Receptor-Ligand Interactions. *J Med Chem*. 2017 June 22;60(12):4735-79.

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