Proteins

Product Data Sheet

Tagraxofusp

Cat. No.: HY-P99536 CAS No.: 2055491-00-2

Target: Interleukin Related

Immunology/Inflammation Pathway:

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

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Desc	rın	ntio	ın

Tagraxofusp (SL-401) is a potent IL-3 receptor inhibitor to inhibits plasmacytoid dendritic cells (pDCs) growth in multiple myeloma (MM) bone marrow (BM) microenvironment. Tagraxofusp has synergistic effect with Bortezomib (HY-10227) and Pomalidomide (HY-10984) to suppress multiple myeloma (MM)^[1].

IC₅₀ & Target

IL-3

In Vitro

Tagraxofusp (0-1367 pM; 72 h) inhibits pDCs viability, as well as pDC-induced proliferation of MM cells. Tagraxofusp (0-136.7 pM; 2-3 weeks) inhibits osteoclast formation and bone resorption, as well as stabilizes osteoblast formation^[1]. Tagraxofusp (0-13.67 nM; 48 h) targets tumor-initiating stem-like cells in MM^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	Cancer stem-like cells in MM
Concentration:	0 nM, 0.013 nM, 0.13 nM, 1.3 nM, 13.67 nM
Incubation Time:	48 hours
Result:	Inhibits cancer stem-like cells with s of 30 pM (pDCs), 50 nM (MM-SP-Oct4 cells), 75 pM (RPMI-8226-Oct4 cells), 350 pM (MM-SP cells), and 1367 pM (RPMI-8226 cells), respectively.

In Vivo

Tagraxofusp (12-50 µg/kg; i.v.; 5 times per week for 3 weeks) blocks pDC-induced tumor growth and prolongs SCID-hu mice survival in subcutaneous INA-6 MM xenograft model^[1].

Tagraxofusp (16 µg/kg; i.v.; 5 times per week for 1 weeks) enhances the anti-MM activity of 2.5 mg/kg Pomalidomide in CB-17 mice of subcutaneous MM xenograft model[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	SCID-hu mice with INA-6 MM ${\sf cells}^{[1]}$
Dosage:	12 μg/kg, 16 μg/kg, 25 μg/kg and 50 μg/kg
Administration:	Intravenous injection; for 5 consecutive days each week for 3 weeks

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Result:	Blocked pDC-induced tumor growth and prolonged mice survival at 12 μ g/kg. Showed well tolerance at 16 μ g/kg, while higher doses resulted in body weight decrease and toxicity.	
Animal Model:	CB-17 mice with subcutaneous MM xenograft model $^{[1]}$	
Dosage:	16 μg/kg; with or without 2.5 mg/kg Pomalidomide (p.o.; 4 consecutive days weekly for 2 weeks)	
Administration:	Intravenous injection; dose at 5 consecutive days for first week	
Result:	Enhanced the anti-MM activity of proteasome inhibitor and immunomodulatory drug pomalidomide.	

REFERENCES

[1]. Ray A, et al. A novel agent SL-401 induces anti-myeloma activity by targeting plasmacytoid dendritic cells, osteoclastogenesis and cancer stem-like cells. Leukemia. 2017 Dec;31(12):2652-2660.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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