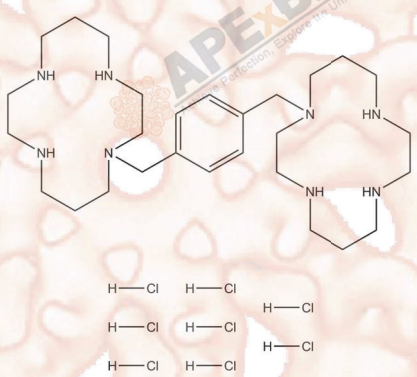
Product Data Sheet

Plerixafor 8HCl (AMD3100 8HCl)

Cat. No.: B1465
CAS No.: 155148-31-5
Formula: C28H62Cl8N8
M.Wt: 794.47
Synonyms:
Target: GPCR/G protein
Pathway: CXCR
Storage: Store at -20°C



Solvent & Solubility

⩾155.4mg/mL in H2O,insoluble in DMSO

In Vitro — Preparing Stock Solutions

Concentration \ Mass / Solvent	1mg	5mg	10mg
1 mM	1.2587 mL	6.2935 mL	12.5870 mL
5 mM	0.2517 mL	1.2587 mL	2.5174 mL
10 mM	0.1259 mL	0.6294 mL	1.2587 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	CXCR4 antagonist
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	Bone marrow mononuclear cells (BMMCs)
Preparation method:	Limited solubility. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	10 μM
Applications:	In BMMCs, AMD3100 neutralizes the osteoclast formation promoted by SDF-1α. AMD3100 could also diminish the expression of osteoclast-specific

		proteins elevated by SDF-1α.
In Vivo	**Animal experiment**	
	Animal models:	8-10 week-old specified pathogen-free female C57BL/6 mice
	Dosage form:	3 mg/kg daily, i.p.
	Applications:	Administration of the CXCR4 antagonist AMD3100 reduced the uptake of tracer that specifically binding to interleukin-2 receptors expressed on activated CD25+ T cells by 2.8-fold, indicating a CXCR4-dependent infiltration of activated T lymphocytes in cancer treatment.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Dong Y, Liu H, Zhang X, et al. Inhibition of SDF-1α/CXCR4 signalling in subchondral bone attenuates post-traumatic osteoarthritis[J]. International Journal of Molecular Sciences, 2016, 17(6): 943.

[2]. Hartimath S V, Draghiciu O, van de Wall S, et al. Noninvasive monitoring of cancer therapy induced activated T cells using [18F] FB-IL-2 PET imaging[J]. OncoImmunology, 2017, 6(1): e1248014.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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