Ruxotemitide (LTX 315)

Catalog No.C13259 Batch:C1325903

Product Datasheet

Technical Data

Formula	$C_{78}H_{106}N_{18}O_9$		
Molecular Weight	1439.79	**CAS No.**	1345407-05-7
Solubility (25°C)*	In vitro	Water	100 mg/mL (69.45 mM)

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume / Mass	1 mg	5 mg	10 mg
1 mM	0.6945 mL	3.4727 mL	6.9455 mL
5 mM	0.1389 mL	0.6945 mL	1.3891 mL
10 mM	0.0695 mL	0.3473 mL	0.6945 mL
50 mM	0.0139 mL	0.0695 mL	0.1389 mL

Biological Activity

Description	Ruxotemitide (LTX 315) is the oncolytic peptide that kills cancer cells through Bax/Bak-regulated mitochondrial membrane permeabilization.
In vitro	LTX-315 is highly active against both murine and human melanoma cell lines in vitro. while displaying low EC50 cytotoxic activity against human red blood cells. LTX-315 has been shown to induce the release of ATP and HMGB1 in vitro, both being DAMPs involved in ICD[1].
In vivo	when syngeneic B16 melanomas are treated intralesionally, a majority of the animals (~80%) treated with LTX-315 experience a complete and long-lasting tumor regression. LTX-315 injection induces an extensive hemorrhagic necrosis of the tumor parenchyma and a massive infiltration of CD3+ T cells, indicating that the peptide induces a type of cell death that leads to an increase in the number of tumor-infiltrating lymphocytes (TILs). treatment of a single tumor with LTX-315 generates a systemic anti-tumor immune response that eradicated distant lesions and prevented reoccurrence following tumor rechallenge[1].

References

https://pubmed.ncbi.nlm.nih.gov/25083333/

http://meetinglibrary.asco.org/content/133463-144

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

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EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com