Teduglutide (ALX-0600)

Catalog No.C14554 Batch:C1455403

Product Datasheet

Technical Data

Formula	$C_{164}H_{252}N_{44}O_{55}S$					
Molecular Weight	3752.08	**CAS No.**	197922-42-2			
Solubility (25°C)*	In vitro	DMSO	2 mg/mL (0.53 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <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

Biological Activity

Description	Teduglutide (ALX-0600, Gattex, Revestive, TAK 633) is an analogue of human glucagon-like peptide-2 (GLP-2) and binds to the **GLP-2 receptors**. Teduglutide prolongs the intestinotrophic properties of GLP-2 in animal models.
In vitro	Teduglutide increases Caco-2 proliferation but tends to inhibit intestinal epithelial differentiation[4].
In vivo	In the Short bowel syndrome (SBS) situation, teduglutide not only maximizes small intestinal mucosal hypertrophy but also partially restores small intestinal epithelial function through an altered distribution of claudin-10, facilitating sodium recirculation for Na-coupled glucose transport and water absorption[3].

Protocol (from reference)

Cell Assay:[4]

- **Cell lines**
  Human Caco-2 intestinal epithelial cells
- **Concentrations**
  500 nM
- **Incubation Time**
  72 h
- **Method**
  Caco-2 cells (10 000 cells per 96-well plate) are plated in cell culture medium for 24 hours. The next day, the cells are incubated with 500nM of this compound in serum-free medium for 72 hours. Then the cells are harvested for cell proliferation assay, bromodeoxyuridine incorporation assay and cell cycle analysis.

Animal Study:[3]

- **Animal Models**
  Short bowel syndrome model mice (C57BL6/J; male)
- **Dosages**
  0.1 mg/kg
- **Administration**
  i.p.

References

https://pubmed.ncbi.nlm.nih.gov/34174312/ https://pubmed.ncbi.nlm.nih.gov/16099790/ https://pubmed.ncbi.nlm.nih.gov/32072437/

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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