产品名称：利拉鲁肽
产品别名：**Liraglutide**

生物活性：

Description	Liraglutide is a glucagon-like peptide-1 (GLP-1) receptor agonist used clinically to treat type 2 diabetes mellitus.
IC_{50} & Target	GLP-1 receptor[1]
In Vitro	Liraglutide binds to the same receptors as does the endogenous metabolic hormone GLP-1. Liraglutide is an injectable drug for the treatment of type 2 diabetes, also can be used to treat obesity in adults with some related comorbidity. Liraglutide activated AMPK/SREBP1 pathway in oxLDL-stimulated Raw264.7 cells[1].
Solvent&Solubility	***In Vitro:*** **H_2O : 5 mg/mL** (**1.33 mM;** ultrasonic and adjust pH to 8 with NaOH)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.2666 mL	1.3329 mL	2.6658 mL
	5 mM	---	---	---
	10 mM	---	---	---

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

References	[1]. Wang Y,et al. Transformation of oligomers of lipidated peptide induced by change in pH.Mol Pharm. 2015 Feb 2;12(2):411-9. [2]. Wang YG, et al. Liraglutide reduces oxidized LDL-induced oxidative stress and fatty degeneration in Raw 264.7 cells involving the AMPK/SREBP1 pathway.J Geriatr Cardiol. 2015 Jul;12(4):410-416.

实验参考：

Cell Assay	Raw264.7 macrophage cells are cultured in Dulbecco's modified Eagle's medium supplemented with 10% fetal bovine serum in a humidified 37°C incubator with 5% CO2. The cells are incubated with oxLDL (50 μg/mL), Liraglutide (0.1, 0.5, 1 and 2 nM) or Exendin-3 (9-39) (1, 10 and 100 nM) alone, or in combination[1].
References	[1]. Wang Y,et al. Transformation of oligomers of lipidated peptide induced by change in pH.Mol Pharm. 2015 Feb 2;12(2):411-9. [2]. Wang YG, et al. Liraglutide reduces oxidized LDL-induced oxidative stress and fatty degeneration in Raw 264.7 cells involving the AMPK/SREBP1 pathway.J Geriatr Cardiol. 2015 Jul;12(4):410-416.