Elsiglutide

Cat. No.:	HY-P3498
CAS No.:	914009-84-0
Molecular Formula:	$C_{196}H_{323}N_{53}O_{56}$
Molecular Weight:	4317.98
Sequence:	His-Gly-Glu-Gly-Ser-Phe-Ser-Ser-Glu-Leu-Ser-Thr-Ile-Leu-Asp-Ala-Leu-Ala-Ala-Arg-Asp-Phe-Ile-Ala-Trp-Leu-Ile-Ala-Thr-Lys-Ile-Thr-Asp-Lys-Lys-Lys-Lys-Lys-Lys-NH2
Sequence Shortening:	HGEGSFSSELSTILDALAARDFIAWLIATKITDKKKKKK-NH2
Target:	GCGR
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Elsiglutide (ZP1846) is a GLP-2 analogue, an orally active and selective GLP-2 receptor agonist, increases cell proliferation and reduces apoptosis in the intestine. Elsiglutide improves Lapatinib (HY-50898)-induced diarrhoea in rat model[1][2].

In Vivo

Elsiglutide (500 mg/kg; p.o.; once daily; 4 times per week for 4 weeks) reduces the most severe diarrhoea seen from Lapatinib (500 mg/kg; p.o.) in rat model[1].

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

Animal Model:	Male Albino Wistar rats (250-280 g)[1]
Dosage:	500 mg/kg, with or not 500 mg/kg Lapatinib
Administration:	Oral gavage; once daily, 4 non-consecutive days per week with vehicle solution being administered on the other 3 days for 4 weeks
Result:	Resulted less incidence of diarrhoea compared to lapatinib alone. Signifcantly less weight gain from day 7 of treatment compared to control.

REFERENCES

[1]. Mayo BJ, et al. The GLP-2 analogue elsiglutide reduces diarrhoea caused by the tyrosine kinase inhibitor lapatinib in rats. Cancer Chemother Pharmacol. 2020 Apr;85(4):793-803.

[2]. Mayo B, et al. The new selective glp-2 receptor agonist, elsiglutide, improves irinotecan-induced diarrhoea and mucositis in the rat. Asia Pacific Journal of Clinical Oncology, 2014, vol.10, iss.Suppl. 8, pp.134-134.

Caution: Product has not been fully validated for medical applications. For research use only.

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