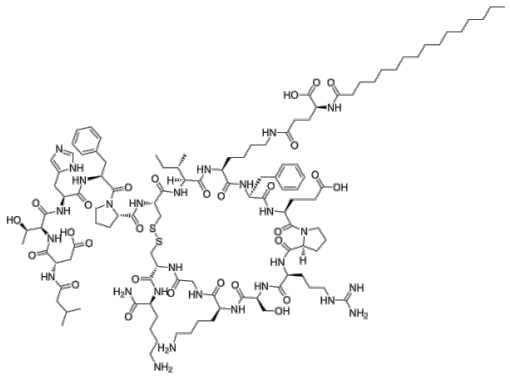
Product Data Sheet

Product Name: Rusfertide
Cat. No.: GC74315

Chemical Properties

Cas. No.	1628323-80-7		
Formula	$C_{114}H_{181}N_{27}O_{28}S_2$	M.Wt	2441.95
Solubility	DMSO : ≥ 100 mg/mL (40.95 mM)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Rusfertide is a peptide mimetic of natural hepcidin, which targets and degrades ferroportin, reduces serum iron and transferrin-saturation, and thus regulates the production of red blood cells. Rusfertide ameliorates the polycythemia vera, β-thalassemia and hereditary hemochromatosis.

Rusfertide limits the iron toxicity in red blood cells (RBCs) (1 mg/kg, s.c., once every two days, for 49 days) and transferrin-saturation (2.5 mg/kg, s.c., once every two days, for 2 weeks), improves oxygen carrying capacity of RBCs, attenuates the anemia and iron deposition in mice models for β-thalassemia and hereditary hemochromatosis[1].

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

[1]. Taranath R, et al., Regulation of iron homeostasis by PTG-300 improves disease parameters in mouse models for beta-thalassemia and hereditary hemochromatosis[J]. Blood, 2019, 134: 3540. [2]. Kremyanskaya M, et al., PTG-300 eliminates the need for therapeutic phlebotomy in both low and high-risk polycythemia vera patients[J]. Blood, 2020, 136: 33-35.

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