



## Product Information

Product ID E5221

CAS No. 123562-20-9

**Chemical Name**

**Synonym**

Formula  $C_{115}H_{160}N_{26}O_{32}S_4$

Formula Wt. 2546.97

**Melting Point**

Purity  $\geq 95\%$

Solubility Soluble in water (1 mg/mL).

Store Temp  $-20^{\circ}C$

Ship Temp Ambient

**Description** Endothelin-2 is an endogenous peptide agonist at endothelin A and B (ET-A/B) receptors that exhibits anti-angiogenic and vasoconstrictive activities. Endothelin-2 inhibits endothelial cell migration and invasion, suppressing vascular development in the retina. In arteries, this peptide induces vasoconstriction in a PLC/ROCK-dependent manner. Additionally, endothelin-2 promotes myelination in animal models.

H-Cys-Ser-Cys-Ser-Ser-Trp-  
Leu-Asp-Lys-Glu-Cys-Val-Tyr-  
Phe-Cys-His-Leu-Asp-Ile-Ile-  
Trp-OH  
(Cys1-Cys15, Cys3-Cys11)

**Bulk quantities available upon request**

Product ID	Size
E5221	0.5 mg
E5221	1 mg
E5221	2.5 mg

**References** Compeer MG, Janssen GM, De Mey JG. Endothelin-1 and endothelin-2 initiate and maintain contractile responses by different mechanisms in rat mesenteric and cerebral arteries. *Br J Pharmacol.* 2013 Nov;170(6):1199-209. PMID: 23941276.

Rattner A, Yu H, Williams J, et al. Endothelin-2 signaling in the neural retina promotes the endothelial tip cell state and inhibits angiogenesis. *Proc Natl Acad Sci U S A.* 2013 Oct 1;110(40):E3830-9. PMID: 24043815.

Yuen TJ, Johnson KR, Miron VE, et al. Identification of endothelin 2 as an inflammatory factor that promotes central nervous system remyelination. *Brain.* 2013 Apr;136(Pt 4):1035-47. PMID: 23518706.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.