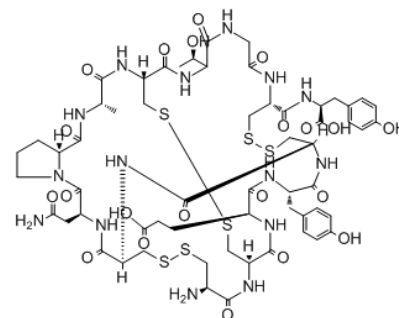


**Product Name** : Linaclotide  
**Cat. No.** : PC-45371  
**CAS No.** : 851199-59-2  
**Molecular Formula** : C<sub>59</sub>H<sub>79</sub>N<sub>15</sub>O<sub>21</sub>S<sub>6</sub>  
**Molecular Weight** : 1526.736  
**Target** : Guanylate Cyclase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Linaclotide is a potent and selective **guanylate cyclase C** (GC-C) agonist (K<sub>i</sub>=1.23-1.64 nM) that elicits pharmacological effects locally in the gastrointestinal tract.

Linaclotide induces a significant increase in fluid secretion, accompanied by a significant increase in intraluminal cGMP levels.

Linaclotide has potential for the treatment of constipation-predominant irritable bowel syndrome (IBS-C) and chronic constipation.

## References

Bryant AP, et al. *Life Sci.* 2010 May 8;86(19-20):760-5.

Eutamene H, et al. *Neurogastroenterol Motil.* 2010 Mar;22(3):312-e84.

Busby RW, et al. *Eur J Pharmacol.* 2010 Dec 15;649(1-3):328-35.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com