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## Product Data Sheet

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Product Name: Xenopsin

Cat. No.: GC34043

### Chemical Properties

Cas. No. 51827-01-1

SMILES {Glp}-Gly-Lys-Arg-Pro-Trp-Ile-Leu

Formula C<sub>47</sub>H<sub>73</sub>N<sub>13</sub>O<sub>10</sub> M.Wt 980.16

Solubility Water: 10 mg/ml 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

Xenopsin is a neurotensin-like octapeptide that has been found in *X. laevis* skin.<sup>1</sup> It inhibits neurotensin binding to rat brain synaptic membranes ( $K_i = 1.5$  nM) and induces contraction of isolated guinea pig ileum in the presence of neostigmine.<sup>2</sup> Xenopsin (0.1 μM) increases the firing rate of dopaminergic neurons in rat substantia nigra slices by 58.5%.<sup>3</sup> Intravenous infusion of xenopsin (2 μg/kg per hour) increases adrenal, pancreatic, and ileal blood flow and plasma levels of pancreatic polypeptide, glucagon, substance P, and cortisol, as well as reduces tetragastrin-induced gastric acid secretion in dogs.<sup>1</sup>

1.Zinner, M.J., Kasher, F., Modlin, I.M., et al.Effect of xenopsin on blood flow, hormone release, and acid secretionAm. J. Physiol.243(3)G195-199(1982) 2.Granier, C., van Rietschoten, J., Kitabgi, P., et al.Synthesis and characterization of neurotensin analogues for structure/activity relationship studies. Acetyl-neurotensin-(8--13) is the shortest analogue with full binding and pharmacological activitiesEur. J. Biochem.124(1)117-124(1982) 3.Pozza, M.F., Küng, E., Bischoff, S., et al.The neurotensin analog xenopsin excites nigral dopamine neuronsEur. J. Pharmacol.145(3)341-343(1988)

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

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