H-P	ro-G	ly-Pro	b-OH

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Cat. No.:	HY-P4486	
CAS No.:	7561-51-5	0
Molecular Formula:	C <sub>12</sub> H <sub>19</sub> N <sub>3</sub> O <sub>4</sub>	
Molecular Weight:	269.3	
Sequence:	H-Pro-Gly-Pro-OH	
Sequence Shortening:	PGP	$\stackrel{\parallel}{\circ}$ $\stackrel{\mid}{H}$
Target:	Others	0
Pathway:	Others	
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	
	and light)	

## SOLVENT & SOLUBILITY

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7133 mL	18.5667 mL	37.1333 mL
	5 mM	0.7427 mL	3.7133 mL	7.4267 mL
	10 mM	0.3713 mL	1.8567 mL	3.7133 mL

<b>BIOLOGICAL ACTIV</b>	ИТҮ	
Description	Pro-Gly-Pro-OH is perfe	collagen-derived matrikine that has classically been described as a neutrophil chemoattractant. H- ectly positioned to focus neutrophils on the site required and direct a localized repair response. H- tes the transcription of neurotrophins and their receptor genes after cerebral ischemia <sup>[1][2]</sup> .
In Vivo	ischemia in rats <sup>[2]</sup> .	5 μg/kg; i.p.) activates the transcription of neurotrophins and their receptor genes after cerebral ently confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	270-320 g, male Wistar rats (focal cerebral ischemia) <sup>[2]</sup>
	Dosage:	37.5 μg/kg

Administration:	I.p.; 15, 1 h, 4, 8, 24, 28, 32, 48, 52, and 56 h
Result:	Enhanced the transcription of Bdnf and TrkC 3 h after pMCAO and Ngf, TrkB, TrkC, an TrkA 24 h after pMCAO.

## REFERENCES

[1]. Patel DF, et al. The multifaceted roles of the matrikine Pro-Gly-Pro in pulmonary health and disease. Eur Respir Rev. 2018 Jun 27;27(148):180017.

[2]. Dmitrieva VG, et al. Semax and Pro-Gly-Pro activate the transcription of neurotrophins and their receptor genes after cerebral ischemia. Cell Mol Neurobiol. 2010 Jan;30(1):71-9.

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA