Product Data Sheet

PTPσ Inhibitor, ISP

Cat. No.:	HY-P5982
Molecular Formula:	C ₁₇₇ H ₃₀₆ N ₆₆ O ₅₄ S ₃
Molecular Weight:	4318.93
Sequence:	Gly-Arg-Lys-Lys-Arg-Arg-Gln-Arg-Arg-Arg-Cys-Asp-Met-Ala-Glu-His-Met-Glu-Arg-Leu-Ly s-Ala-Asn-Asp-Ser-Leu-Lys-Leu-Ser-Gln-Glu-Tyr-Glu-Ser-Ile-NH2
Sequence Shortening:	GRKKRRQRRRCDMAEHMERLKANDSLKLSQEYESI-NH2
Target:	Phosphatase
Pathway:	Metabolic Enzyme/Protease

BIOLOGICAL ACTIVITY		
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Description	PTPσ Inhibitor, ISP can bind to recombinant human PTPs and inhibits PTPσ signaling. PTPσ Inhibitor, ISP can penetrate the membrane and relieves the chondroitin sulfate proteoglycan (CSPG)-mediated axonal sprouting inhibition in spinal cord injury model. PTPσ Inhibitor, ISP enhances remyelination in LPC-induced demyelinated spinal cord. PTPσ Inhibitor, ISP also promotes oligodendrocyte progenitor cells (OPCs) migration, maturation, remyelination, and functional recovery in animal models of Multiple Sclerosis (MS) ^{[1][2]} .	
IC ₅₀ & Target	ΡΤΡσ ^[1] .	

REFERENCES

[1]. Niknam P, et al. Modulating proteoglycan receptor PTPo using intracellular sigma peptide improves remyelination and functional recovery in mice with demyelinated optic chiasm. Mol Cell Neurosci. 2019 Sep;99:103391.

[2]. Luo F, et al. Modulation of proteoglycan receptor PTP o enhances MMP-2 activity to promote recovery from multiple sclerosis. Nat Commun. 2018 Oct 8;9(1):4126.

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

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