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**Product Data Sheet**


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Product Name: Peptide5  
 Cat. No.: GC50439

**Chemical Properties**

Cas. No. 916977-43-0

SMILES [H]N[C@@H](C(C)C)C(=O)N[C@@H](CC(O)=O)C(=O)N[C@@H](CS)C(=O)N[C@@H](CC1=CC=CC=C1)C(=O)N[C@@H](CC(C)C)C(=O)N[C@@H](CO)C(=O)N[C@@H](CCCNC(N)=N)C(=O)N1CCC[C@H]1C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CCC(O)=O)C(=O)N[C@@H](CCCCN)C(=O)N[C@@H]([C@@H](C)O)C(O)=O

Formula	C <sub>60</sub> H <sub>98</sub> N <sub>16</sub> O <sub>20</sub> S	M.Wt	1395.59
Solubility	Soluble in DMSO	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**

Connexin43 mimetic peptide. Reduces swelling, astrogliosis, neuroinflammation and neuronal cell death following spinal cord injury ex vivo and in vivo. Exhibits analgesic effects in models of neuropathic pain.

O'Carroll et al (2008) Connexin 43 mimetic peptides reduce swelling, astrogliosis and neuronal cell death after spinal cord injury. Cell.Commun.Adhes. 15 27 PMID:18649176 |Mao et al (2017) Characterisation of Peptide5 systemic administration for treating traumatic spinal cord injured rats. Exp.Brain.Res. 235 3033 PMID:28725925 |Kim et al (2017) Characterising the mode of action of extracellular Connexin43 channel mimetic peptides in an in vitro ischemia injury model. Biochem.Biophys.Acta. 1861 68 PMID:27816754 |Tonkin et al (2017) Attenuation of mechanical pain hypersensitivity by treatment with Peptide5, a connexin-43 mimetic peptide, involves inhibition of NLRP3

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

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inflammasome in nerve-injured mice. Exp.Neurol. 300 1 PMID:29055716

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