

## Product Information

### Gap junction protein inhibitor, 10Panx, Purity ≥98%

**Cat. No.:** X24-08-YM345

**Size:** 5 mg; 10 mg; 25 mg; 50 mg

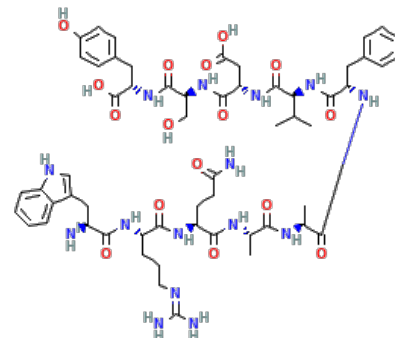
**CAS Number:** 955091-53-9

**Compound CID:** 44233736

**Synonym:** 955091-53-9; 10 Panx; 10Panx1;

(3S)-3-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-5-Amino-2-[[[(2S)-2-[[[(2S)-2-amino-3-(1H

-indol-3-yl)propanoyl]amino]-5-(diaminomethylideneamino)pentanoyl]amino]-5-oxopen  
tanoyl]amino]propanoyl]amino]propanoyl]amino]-3-phenylpropanoyl]amino]-3-methylb  
utanoyl]amino]-4-[[[(2S)-1-[[[(1S  
)-1-carboxy-2-(4-hydroxyphenyl)ethyl]amino]-3-hydroxy-1-oxopropan-2-yl]amino]-4-ox  
obutanoic acid



**This product is for research use only and is not intended for diagnostic use.**

### Product Information

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| <b>Description</b>       | 10Panx is an effective cytoskeleton inhibitor, that has the ability to prevent the pathway of cytoskeletal signaling by inhibiting gap junction protein.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Weight</b>  | 1242.37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Formula</b> | C <sub>58</sub> H <sub>79</sub> N <sub>15</sub> O <sub>16</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>IUPAC Name</b>        | (3S)-3-[[[(2S)-2-[[[(2S)-2-[[[(2S)-2-[[[(2S)-5-Amino-2-[[[(2S)-2-[[[(2S)-2-amino-3-(1H<br>-indol-3-yl)propanoyl]amino]-5-(diaminomethylideneamino)pentanoyl]amino]-5-oxopentanoyl]amino]<br>propan<br>oyl]amino]pro<br>panoyl]amino]-3-phenylprop<br>anoyl]amino]-3-methylbutanoyl]amino]-4-[[[(2S)-1-[[[(1S<br>)-1-carboxy-2-(4-hydroxyphenyl)ethyl]amino]-3-hydroxy-1-oxopropan-2-yl]amino]-4-oxobutanoic acid                                                                                                                                                             |
| <b>InChI</b>             | InChI=1S/C58H79N15O16/c1-29(2)47(56(87)70-42(26-46(77)78)53(84)72-44(28-74)55(86)71-43(57<br>(88)89)24-33-16-18-35(75)19-17-33)73-54(85)41(23-32-11-6-5-7-12-32)69-49(80)31(4)65-48(79)30(<br>3)66-51(82)40(20-21-45(60)76)68-52(83)39(15-10-22-63-58(61)62)67-50(81)37(59)25-34-27-64-38-<br>14-9-8-13-36(34)38/h5-9,11-14,16-19,27,29-31,37,39-44,47,64,74-75H,10,15,20-26,28,59H2,1-4H3,<br>(H2,60,76)(H,65,79)(H,66,82)(H,67,81)(H,68,83)(H,69,80)(H,70,87)(H,71,86)(H,72,84)(H,73,85)(H,7<br>7,78)(H,88,89)(H4,61,62,63)/t30-,31-,37-,39-,40-,41-,42-,43-,44-,47-/m0/s1 |

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| <b>InChI Key</b>        | BIZKIHUJGMSVFD-MNOVXSKEA-N                                                                                                                                                                                                       |
| <b>Canonical SMILES</b> | <chem>C1C(CN(C1C(=O)O)C(=O)CN)NC(=O)C2=CC=CC=C2</chem>                                                                                                                                                                           |
| <b>Isomeric SMILES</b>  | <chem>C1[C@H](CN([C@@H]1C(=O)O)C(=O)CN)NC(=O)C2=CC=CC=C2</chem>                                                                                                                                                                  |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                               |
| <b>Purity</b>           | ≥98%                                                                                                                                                                                                                             |
| <b>Titer</b>            | Free from inappropriate visible particulates, foreign matter, discoloration, or other defects                                                                                                                                    |
| <b>Stability</b>        | In its lyophilized form, the chemical remains stable for 36 months.                                                                                                                                                              |
| <b>Quality Level</b>    | Research grade                                                                                                                                                                                                                   |
| <b>Applications</b>     | 10Panx is a cytoskeletal signaling inhibitor that can be studied extensively for its potential therapeutic applications in the treatment of various physiological and pathological processes, including inflammation and cancer. |
| <b>Storage</b>          | Store at -20°C, and keep desiccated.                                                                                                                                                                                             |

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