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| <b>Product Name</b>      | : BGC20-1531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>          | : PGN-1531; AP 1531; BGC 20-1531                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cat No.</b>           | : M13079                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>CAS Number</b>        | : 1962928-26-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Formula</b> | : C <sub>26</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>6</sub> S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Formula Weight</b>    | : 529.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Chemical Name</b>     | : 4-[4-(5-Methoxy-2-pyridinyl)phenoxy]methyl]-5-methyl-N-[(2-methylphenyl)sulfonyl]-2-furancarboxamide hydrochloride                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>       | <p>BGC20-1531 (PGN-1531, AP 1531) is a potent, selective prostanoid EP receptor EP antagonist, exhibits high affinity at recombinant human EP4 receptors expressed in cell lines (pK<sub>B</sub>=7.6) and native EP4 receptors in human cerebral and meningeal artery (pK<sub>B</sub>=7.6-7.8); shows no appreciable affinity at a wide range of other receptors (including other prostanoid receptors), channels, transporters and enzymes (pK<sub>i</sub> &lt; 5); competitively antagonizes PGE(2)-induced vasodilatation of human middle cerebral (pK(B) 7.8) and meningeal (pK(B) 7.6) arteries in vitro, and PGE(2)-induced increase in canine carotid blood flow in vivo. Migraine Phase 2 Discontinued</p> |
| <b>Pathway</b>           | : GPCR/G Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Target</b>            | : Prostaglandin Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Receptor</b>          | : Prostaglandin Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Solubility</b>        | : —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>SMILES</b>            | : <chem>CC1=CC=CC=C1S(=O)(=O)NC(=O)C2=CC(=C(O2)C)COC3=CC=C(C=C3)C4=NC=C(C=C4)OC.Cl</chem>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

1. Maubach KA, et al. Br J Pharmacol. 2009 Jan;156(2):316-27. | 2. Antonova M, et al. J Headache Pain. 2011 Oct;12(5):551-9.