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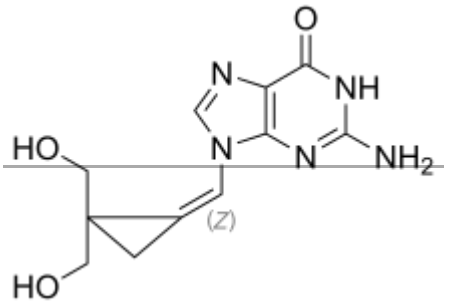
# Filociclovir

**Filociclovir** (**cyclopropavir**, **MBX-400**) is an antiviral drug which was developed for the treatment of cytomegalovirus infection and also shows some activity against other double-stranded DNA viruses. It has reached Phase II human clinical trials.[1][2][3]

## References


1. Chemaly RF, Hill JA, Voigt S, Peggs KS (March 2019). "In vitro comparison of currently available and investigational antiviral agents against pathogenic human double-stranded DNA viruses: A systematic literature review" (https://doi.org/10.1016%2Fj.antiviral.2019.01.008). *Antiviral Research*. **163**: 50–58. doi:10.1016/j.antiviral.2019.01.008 (https://doi.org/10.1016%2Fj.antiviral.2019.01.008). PMID 30677427 (https://pubmed.ncbi.nlm.nih.gov/30677427).
2. Rouphael NG, Hurwitz SJ, Hart M, Beck A, Anderson EJ, Deye G, et al. (September 2019). "Phase Ib Trial To Evaluate the Safety and Pharmacokinetics of Multiple Ascending Doses of Filociclovir (MBX-400, Cyclopropavir) in Healthy Volunteers" (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6709474). *Antimicrobial Agents and Chemotherapy*. **63** (9): e00717–19. doi:10.1128/AAC.00717-19 (https://doi.org/10.1128%2FAAC.00717-19). PMC 6709474 (https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6709474). PMID 31285228 (https://pubmed.ncbi.nlm.nih.gov/31285228).
3. Hussein IT, Brooks J, Bowlin TL (January 2020). "The discovery and development of filociclovir for the prevention and treatment of human cytomegalovirus-related disease". *Antiviral Research*. **176**: 104710. doi:10.1016/j.antiviral.2020.104710 (https://doi.org/10.1016%2Fj.antiviral.2020.104710). PMID 31940473 (https://pubmed.ncbi.nlm.nih.gov/31940473). S2CID 210333445 (https://api.semanticscholar.org/CorpusID:210333445).


**Filociclovir**




| Legal status | |
|---|---|
| **Legal status** | US: Investigational New Drug |
| **Identifiers** | |
| **IUPAC name** | 2-amino-9-[(Z)-[2,2-bis(hydroxymethyl)cyclopropylidene]methyl]-1H-purin-6-one |
| **CAS Number** | 632325-71-4 (https://commonchemistry.cas.org/detail?cas_rn=632325-71-4) |
| **PubChem CID** | 135409256 (https://pubchem.ncbi.nlm.nih.gov/compound/135409256) |
| **ChemSpider** | 2276035 (https://www.chemspider.com/Chemical-Structure.2276035.html) |
| **UNII** | EAO0TD9B13 (https://precision.fda.gov/uniisearch/srs/unii/EAO0TD9B13) |
| **KEGG** | D10632 (https://www.kegg.jp/entry/D10632) |
| **CompTox Dashboard** | DTXSID10212612 (https://comptox.epa.g |

| | |
|---|---|
| (EPA) | ov/dashboard/chemical/details/DTXSID10212612) |
| **Chemical and physical data** | |
| **Formula** | $C_{11}H_{13}N_5O_3$ |
| **Molar mass** | 263.257 g·mol$^{-1}$ |
| **3D model (JSmol)** | Interactive image (https://chemapps.stolaf.edu/jmol/jmol.php?model=C1%2FC%28%3DC%2FN2C%3DNC3%3DC2N%3DC%28NC3%3DO%29N%29%2FC1%28CO%29CO) |
| **SMILES** | C1/C(=C/N2C=NC3=C2N=C(NC3=O)N)/C1(CO)CO |
| **InChI** | InChI=1S/C11H13N5O3/c12-10-14-8-7(9(19)15-10)13-5-16(8)2-6-1-11(6,3-17)4-18/h2,5,17-18H,1,3-4H2,(H3,12,14,15,19)/b6-2-<br>Key:KMUNHOKTIVSFRA-KXFIGUGUSA-N |

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