**Supplementary Table 1:** The lead molecules of anti-MARV from ChemDiv antiviral library

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| S. No. | ChemDiv ID and IUPAC Name | Chemical Structures |
| 1 | 8019-06732‐(1,3‐dimethyl‐1H‐pyrazol‐4‐yl)‐2‐(3‐phenyl‐4,5‐dihydro‐1H‐pyrazol‐1‐yl)acetonitrile |  |
| 2 | 8019-61485‐bromo‐2‐(piperidin‐1‐yl)pyrimidine‐4‐carboxylic acid |  |
| 3 | 8019-71903‐amino‐N‐(2,3‐dimethylphenyl)benzamide |  |
| 4 | E155-0978N'‐[(2R)‐2‐(2,3‐dihydro‐1H‐indol‐1‐yl)‐2‐(pyridin‐3‐yl)ethyl]‐N‐(2,5‐dimethylphenyl)ethanediamide |  |
| 5 | e155-0983N‐(2H‐1,3‐benzodioxol‐5‐yl)‐N'‐[(2R)‐2‐(2,3‐dihydro‐1H‐indol‐1‐yl)‐2‐(pyridin‐3‐yl)ethyl]ethanediamide |  |
| 6 | e155-0988N'‐[(2R)‐2‐(2,3‐dihydro‐1H‐indol‐1‐yl)‐2‐(pyridin‐3‐yl)ethyl]‐N‐(3‐fluoro‐4‐methylphenyl)ethanediamide |  |
| 7 | e155-0994N‐(3‐chloro‐2‐methylphenyl)‐N'‐[(2R)‐2‐(2,3‐dihydro‐1H‐indol‐1‐yl)‐2‐(pyridin‐3‐yl)ethyl]ethanediamide |  |
| 8 | e155-0995N'‐[(2R)‐2‐(2,3‐dihydro‐1H‐indol‐1‐yl)‐2‐(pyridin‐3‐yl)ethyl]‐N‐(2,4,6‐trimethylphenyl)ethanediamide |  |
| 9 | f058-01621‐methyl‐N‐(5‐methyl‐1,2‐oxazol‐3‐yl)‐1H‐1,2,3‐benzotriazole‐5‐carboxamide |  |
| 10 | g645-0041N‐(2‐oxo‐2,3‐dihydro‐1,3‐benzothiazol‐6‐yl)thiophene‐2‐carboxamide |  |
| 11 | p166-03263‐[(3R)‐1‐[6‐(cyclopropylamino)pyrimidin‐4‐yl]piperidin‐3‐yl]‐N‐[2‐(dimethylamino)ethyl]propanamide |  |
| 12 | p166-1267N‐{2‐[3‐(3‐fluorophenyl)‐1,2,4‐oxadiazol‐5‐yl]thiophen‐3‐yl}‐1‐methyl‐1H‐indazole‐3‐carboxamide |  |
| 13 | p166-1799N‐{2‐[3‐(3,4‐difluorophenyl)‐1,2,4‐oxadiazol‐5‐yl]thiophen‐3‐yl}‐1‐ethyl‐1H‐pyrazole‐3‐carboxamide |  |
| 14 | p166-2041N‐benzyl‐5‐(5‐{[cyclohexyl(methyl)amino]methyl}‐1,2,4‐oxadiazol‐3‐yl)‐N‐methylpyridin‐2‐amine |  |
| 15 | p549-00425‐(5‐cyclobutyl‐1,2,4‐oxadiazol‐3‐yl)‐2‐(1H‐pyrazol‐1‐yl)pyridine |  |
| 16 | p633-0038N‐(2‐methylphenyl)‐1H‐pyrrolo[2,3‐b]pyridine‐3‐Sulfonamide |  |
| 17 | p633-0061N‐(2‐fluorophenyl)‐1H‐pyrrolo[2,3‐b]pyridine‐3‐Sulfonamide |  |
| 18 | s695-19874‐[3‐(2‐methyl‐1H‐imidazol‐1‐yl)azetidine‐1‐carbonyl]benzonitrile |  |
| 19 | s695-19953‐[3‐(2‐methyl‐1H‐imidazol‐1‐yl)azetidine‐1‐carbonyl]benzonitrile |  |
| 20 | t001-0365N‐[2‐(pyridin‐3‐yl)‐1,3‐benzoxazol‐5‐yl]but‐2‐ynamide |  |
| 21 | y030-16294‐chloro‐N‐(3‐chlorophenyl)‐1‐methyl‐1H‐pyrazole‐5‐Carboxamide |  |
| 22 | y040-3666N‐(4‐methyl‐1,3‐thiazol‐2‐yl)‐1,3‐benzothiazole‐6‐Carboxamide |  |
| 23 | y040-3667N‐(5‐methyl‐1,3‐thiazol‐2‐yl)‐1,3‐benzothiazole‐6-carboxamide |  |
| 24 | y040-4650N‐(4‐methyl‐1,3‐thiazol‐2‐yl)‐1H‐1,3‐benzodiazole‐6‐carboxamide |  |
| 25 | y200-0316methyl 2‐(pyridin‐4‐yl)quinoline‐4‐carboxylate |  |

**Supplementary Table 2:** The lead molecules of anti-MARV from ChEMBL antiviral library.

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| S. No. | Chemical ID and Name | Chemical Structures |
| 1 | CHEMBL2106705Famotine Hydrochloride |  |
| 2 | CHEMBL2110933Famotine |  |
| 3 | CHEMBL535396Rimantadine Hydrochloride |  |
| 4 | CHEMBL959Rimantadine |  |

**Supplementary Table 3:** The lead molecules of anti-MARV from phytochemical database.

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| S. No. | Chemical ID and Name | Chemical Structure |
| 1 | NPACT00508(3S,3aS,11aR)‐3‐hydroxy‐6,10‐dimethyl‐2H,3H,3aH,4H,5H,8H,9H,11aH‐cyclodeca[b]furan‐2‐one |  |
| 2 | NPACT007534‐methyl‐1H,2H,5H,10H‐benzo[g]quinoline‐2,5,10‐Trione |  |
| 3 | NPACT00844(1S,2S,4R,7E,11S)‐4,8‐dimethyl‐12‐methylidene‐3,14‐dioxatricyclo[9.3.0.02,4]tetradec‐7‐en‐13‐on |  |

**Supplementary Table 4:** The lead molecules of anti-MARV from natural product NCI diversity setIV.

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| S. No. | Chemical ID and Name | Chemical Structure |
| 1 | NSC: 21728 Sempervirine, Nitrate |  |
| 2 | NSC: 332294 (6Ar,9R,10aR)-7,9-dimethyl-4-propyl-6,6a,8,9,10,10a-hexahydroindolo[4,3-fg]quinoline;(2R,3R)-2,3-dihydroxybutanedioic acid |  |
| 3 | NSC: 85235 Ambrosin |  |
| **4** | NSC: 157035 Parthenolide |  |
| **5** | NSC: 26326 Lapachone, Beta |  |
| **6** | NSC: 26327 Lapachone, Alpha  |  |
| **7** | NSC: 785152 Apocodeine hydrochloride |  |