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| <b>Product Name</b>      | : Enzalutamide                                                                                                                                                                                                                                                                                                                                            |
| <b>Synonyms</b>          | : MDV3100;MDV-3100;MDV 3100                                                                                                                                                                                                                                                                                                                               |
| <b>Cat No.</b>           | : M16573                                                                                                                                                                                                                                                                                                                                                  |
| <b>CAS Number</b>        | : 915087-33-1                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Formula</b> | : C <sub>21</sub> H <sub>16</sub> F <sub>4</sub> N <sub>4</sub> O <sub>2</sub> S                                                                                                                                                                                                                                                                          |
| <b>Formula Weight</b>    | : 464.44                                                                                                                                                                                                                                                                                                                                                  |
| <b>Chemical Name</b>     | : Benzamide, 4-[3-[4-cyano-3-(trifluoromethyl)phenyl]-5,5-dimethyl-4-oxo-2-thioxo-1-imidazolidinyl]-2-fluoro-N-methyl-                                                                                                                                                                                                                                    |
| <b>Description</b>       | : An androgen-receptor (AR) antagonist with IC <sub>50</sub> of 36 nM; reduces the efficiency of AR nuclear translocation, and impairs both DNA binding to androgen response elements and recruitment of coactivators; induces tumor regression in mouse models of castration-resistant human prostate cancer; orally available. Prostate cancer Approved |
| <b>Pathway</b>           | : Endocrinology/Hormones                                                                                                                                                                                                                                                                                                                                  |
| <b>Target</b>            | : Androgen Receptor (AR)                                                                                                                                                                                                                                                                                                                                  |
| <b>Receptor</b>          | : AndrogenReceptor                                                                                                                                                                                                                                                                                                                                        |
| <b>Solubility</b>        | : 10 mM in DMSO                                                                                                                                                                                                                                                                                                                                           |
| <b>SMILES</b>            | : <chem>O=C(NC)C1=CC=C(N(C(N2C3=CC=C(C#N)C(C(F)(F)F)=C3)=S)C(C)(C)C2=O)C=C1F</chem>                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | : (-20°C)                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>         | : ≥ 2 years                                                                                                                                                                                                                                                                                                                                               |
| <b>Reference</b>         | :                                                                                                                                                                                                                                                                                                                                                         |

1. Tran C, et al. Science. 2009 May 8;324(5928):787-90. | 2. Richards J, et al. Cancer Res. 2012 May 1;72(9):2176-82. | 3. Scher HI, et al. N Engl J Med. 2012 Sep 27;367(13):1187-97.

