

Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

## Product Datasheet

### I2 FBM-10-4908

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Article Name               | I2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Biozol Catalog Number      | FBM-10-4908                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Supplier Catalog Number    | 10-4908                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Catalog Number | FBM-10-4908-5MG,FBM-10-4908-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product Description        | ERO1A inhibitor...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Molecular Weight           | 451.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Purity                     | 98% by TLC NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form                       | Orange/red solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Formula                    | C21H11Cl2F3N2O2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Application Notes          | I2 is an inhibitor of the oxidoreductase ERO1A (IC50 = 8.1 µM), a mediator of the unfolded protein response (UPR). <sup>1</sup> Under cancer-related hypoxia conditions, ERO1A favors the folding of the angiogenic protein VEGFA leading to cancer cell growth and spread. I2 inhibited the metabolic activity of DMA-MB-231 triple negative breast cancer cells and impaired migration and VEGF secretion. Tumors in C57/BL6Jmice showed decreased levels of VEGF and PD-L1 when treated with I2. |