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## Product Datasheet

### Biotin-isoxazole FBM-10-5400

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| Article Name               | Biotin-isoxazole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Biozol Catalog Number      | FBM-10-5400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Supplier Catalog Number    | 10-5400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alternative Catalog Number | FBM-10-5400-1MG,FBM-10-5400-5MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Product Description        | Precipitates RNA Binding Proteins...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Molecular Weight           | 520.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity                     | 98% by TLC nMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form                       | Beige solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAS Number                 | [1377605-22-5]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formula                    | C24H32N4O5S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Application Notes          | Exposure of cell or tissue lysates to biotin-isoxazole precipitates hundreds of RNA-binding proteins with significant overlap to the constituents of RNA granules. <sup>1,2</sup> In one study roughly 580 nuclear proteins were identified as being precipitated by B-Isox including TAF15, RNA polymerase II (largest subunit), numerous subunits of the mediator complex as well as a variety of enzymes involved in epigenetic modification of histones. <sup>3</sup> SR domains were found to be the determinant that facilitates B-Isox precipitation. <sup>4</sup> Also allows for the fractionation / isolation of SG-associated proteins and RNA precipitates. <sup>5</sup> |