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## Product Datasheet

### Nicotinamide, CAS [[98-92-0]] FBM-10-2840

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| Article Name               | Nicotinamide, CAS [[98-92-0]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Biozol Catalog Number      | FBM-10-2840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Supplier Catalog Number    | 10-2840                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alternative Catalog Number | FBM-10-2840-1G,FBM-10-2840-5G                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Product Description        | SIRT1 inhibitor/essential nutrient...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Molecular Weight           | 122.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity                     | >99% by HPLC, NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Form                       | White solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| CAS Number                 | [98-92-0]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Formula                    | C <sub>6</sub> H <sub>6</sub> N <sub>2</sub> O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Application Notes          | Essential nutrient (amide form of Vitamin B3) that is incorporated into cofactors NADH/NAD <sup>+</sup> , important for ATP production and other key metabolic functions. <sup>1</sup> Transiently inhibits SIRT1/SIRT3 through feedback inhibition (IC <sub>50</sub> ~ 50 μM) <sup>2</sup> , but is quickly converted to NAD <sup>+</sup> in cells <sup>3</sup> . Also inhibits certain kinases (e.g. ROCK and CK1), making it a regulator of hPSC pluripotency, survival, and differentiation. <sup>4</sup> Inhibits differentiation and enhances functionality of hematopoietic stem/progenitor cells (HSPCs). <sup>5</sup> |