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## Product Datasheet

### Lipoic acid (DL, alpha), CAS [[1077-28-7]] FBM-10-5094

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|----------------------------|--|
| Article Name               | Lipoic acid (DL, alpha), CAS [[1077-28-7]]   |
| Biozol Catalog Number      | FBM-10-5094  |
| Supplier Catalog Number    | 10-5094  |
| Alternative Catalog Number | FBM-10-5094-5G, FBM-10-5094-25G  |
| Manufacturer               | Focus Biomolecules   |
| Category                   | Biochemikalien   |
| Product Description        | Endogenous antioxidant and cofactor...   |
| Molecular Weight           | 206.32   |
| Purity                     | >98% by TLC NMR (Conforms)   |
| Form                       | Pale-yellow solid  |
| CAS Number                 | [1077-28-7]  |
| Formula                    | C8H14O2S2  |
| Application Notes          | Endogenous antioxidant. <sup>1,2</sup> Treatment with alpha-lipoic acid increased hepatic nuclear Nrf2 levels, induced Nrf2-mediated gene transcription, and reversed age-related decline in hepatic glutathione levels in a rat model. <sup>3</sup> It is an essential cofactor required for catalysis by multiple mitochondrial enzymes including pyruvate dehydrogenase, alpha-ketoglutarate dehydrogenase and branched-chain ketoacid dehydrogenase among others. <sup>4</sup> It has shown efficacy as a treatment in diabetic neuropathy. <sup>5</sup> |