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## Product Datasheet

### Synaptamide, CAS [[162758-94-3]] FBM-10-1194

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| Article Name               | Synaptamide, CAS [[162758-94-3]]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Biozol Catalog Number      | FBM-10-1194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Supplier Catalog Number    | 10-1194                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Alternative Catalog Number | FBM-10-1194-5MG,FBM-10-1194-25MG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Manufacturer               | Focus Biomolecules                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Category                   | Biochemikalien                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Product Description        | Endogenous agonist at GPR110...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Molecular Weight           | 371.56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Purity                     | 98% by TLC, NMR (Conforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form                       | Colorless to yellow oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| CAS Number                 | [162758-94-3]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Formula                    | C24H37NO2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Application Notes          | Anandamide-like lipid mediator produced from DHA in the brain. Stimulates neurite growth, synaptogenesis and glutamatergic synaptic activity in developing hippocampal neurons at 10-100 nM. <sup>1</sup> Potently induces neuronal differentiation of neural stem cells. <sup>2</sup> Promotes growth of cortical axons via modulation of hedgehog signaling. <sup>3</sup> Binds to and activates orphan receptor GPR110, stimulating cAMP production at low nM concentrations. <sup>4</sup> Reduces LPS-induced TNF $\alpha$ production in cultured microglia cells and ameliorates LPS-induced neuroinflammation in a mouse model. <sup>5</sup> |