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## Product Datasheet

### gamma-L-Glutamyl-p-nitroanilide HCl FBM-10-4568

|                            |   |
|----------------------------|---|
| Article Name               | gamma-L-Glutamyl-p-nitroanilide HCl   |
| Biozol Catalog Number      | FBM-10-4568   |
| Supplier Catalog Number    | 10-4568   |
| Alternative Catalog Number | FBM-10-4568-100MG,FBM-10-4568-250MG   |
| Manufacturer               | Focus Biomolecules  |
| Category                   | Biochemikalien  |
| Product Description        | L-glutamine uptake inhibitor and gamma-glutamyl transpeptidase substrate...   |
| Molecular Weight           | 303.70  |
| Purity                     | 98%   |
| Form                       | Off-white solid   |
| CAS Number                 | [67953-08-6]  |
| Formula                    | C <sub>11</sub> H <sub>13</sub> N <sub>3</sub> O <sub>5</sub> HCl   |
| Application Notes          | L-gamma-Glutamyl-p-nitroanilide (GPNA) is a substrate for gamma-glutamyl transpeptidase. GPNA is used for the determination of gamma-glutamyl transpeptidase hydrolytic activity via spectrophotometric monitoring of p-nitroaniline released by the action of the enzyme on GPNA. <sup>1</sup> GPNA has also been shown to be an inhibitor of glutamine uptake - solute-linked carrier family A1 member 5 (SLC1A5) <sup>2</sup> Cellular uptake of L-glutamine (regulated by SLC1A5) is a rate-limiting step that activates mTOR and is, thus, an interesting cancer chemotherapy target. <sup>3</sup> |