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## Product Datasheet

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

Artikelname	gamma-L-Glutamyl-p-nitroanilide HCl
Artikelnummer	FBM-10-4568
Hersteller Artikelnummer	10-4568
Alternativnummer	FBM-10-4568-100MG,FBM-10-4568-250MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	L-glutamine uptake inhibitor and gamma-glutamyl transpeptidase substrate...
Molekulargewicht	303.70
Reinheit	98%
Formulierung	Off-white solid
CAS Nummer	[67953-08-6]
Formel	C11H13N3O5 HCl
Anwendungsbeschreibung	<p>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></p>