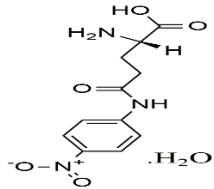


PRODUCT: GPNA (monohydrate)**ALTERNATE NAMES:** (L- γ -Glutamyl-*p*-nitroanilide, L-Glutamic acid 5-(4-nitroanilide)**CATALOG NUMBER:** B2150-50, 250**AMOUNT:** 50 mg, 250 mg**STRUCTURE:****MOLECULAR FORMULA:** C₁₁H₁₃N₃O₅.H₂O**MOLECULAR WEIGHT:** 285.25**CAS NUMBER:** 7300-59-6**APPEARANCE:** White to green yellow solid**SOLUBILITY:** DMSO**PURITY:** \geq 98% by HPLC**STORAGE:** Store at -20 °C. Protect from air and light**DESCRIPTION:** GPNA is a substrate for γ -glutamyl transpeptidase. GPNA has also been shown to be an inhibitor of glutamine uptake - solute-linked carrier family A1 member 5 (SLC1A5). Cellular uptake of L-glutamine (regulated by SLC1A5) is a rate-limiting step that activates mTOR and is, thus, an interesting cancer chemotherapy target.**REFERENCE:** Marshall, A.D., et al. (2017). *Oncogenesis* **6**, page e367 (2017)**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**RELATED PRODUCTS:**O-Benzyl-L-serine (**B2152**)GPNA (**B2150**)Glutamine Colorimetric Assay Kit (**K556**)Glutamate Colorimetric Assay Kit (**K627**)**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**