

Phenylbutyrate is a prodrug that is rapidly converted to phenylacetate, which combines with glutamine to form phenylacetylglutamine. The phenylacetylglutamine, containing two atoms of nitrogen, is excreted in the urine, thereby assisting in clearance of nitrogenous waste.

URINE



Phenylacetylglutamine

Protein



Amino acids



Phenylacetate

Glutamine
Glutamine
Glutamine
Glutamine

Glutamine synthetase

Glutamate

