

**Product Name** : N-(3-Phenylpropionyl)glycine

**Synonyms** : Phenylpropionylglycine

**Cat No.** : M20154

**CAS Number** : 56613-60-6

**Molecular Formula** : C<sub>11</sub>H<sub>13</sub>NO<sub>3</sub>

**Formula Weight** : 207.22

**Chemical Name** : —

**Description** : N-(3-Phenylpropionyl)glycine is an acyl glycine. Acyl glycines are normally minor metabolites of fatty acids. However the excretion of certain acyl glycines is increased in several inborn errors of metabolism. Acyl glycines are produced through the action of glycine N-acyltransferase which is an enzyme that catalyzes the chemical reaction: acyl-CoA + glycine < – > CoA + N-acylglycine. The detection of phenylpropionylglycine in urine after an oral load of phenylpropionic acid can be used to diagnose deficiency of medium-chain acyl-CoA dehydrogenase a frequent and treatable metabolic defect.

**Pathway** : Others

**Target** : Other Targets

**Receptor** : Others

**Solubility** : DMSO: 10 mM

**SMILES** : OC(=O)CNCCC(=O)c1ccccc1

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Flath B et al. Simple high-performance liquid chromatographic method for the detection of phenylpropionylglycine in urine as a diagnostic tool in inherited medium-chain acyl-coenzyme A dehydrogenase deficiency. J Chromatogr B Biomed Sci Appl. 1997 Jun 20; 694(1):227-32.