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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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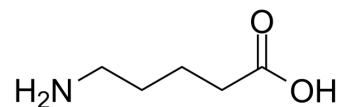
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5-Aminovaleric acid

| | |
|--------------------|--|
| Cat. No.: | HY-W015878 |
| CAS No.: | 660-88-8 |
| Molecular Formula: | C ₅ H ₁₁ NO ₂ |
| Molecular Weight: | 117.15 |
| Target: | Endogenous Metabolite |
| Pathway: | Metabolic Enzyme/Protease |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

| | | | | | | |
|---|---|---------------|-----------|-----------|------------|------------|
| In Vitro | H ₂ O : 110 mg/mL (938.97 mM; Need ultrasonic) | | | | | |
| | DMSO : < 1 mg/mL (insoluble or slightly soluble) | | | | | |
| | Preparing Stock Solutions | Solvent | Mass | 1 mg | 5 mg | 10 mg |
| | | Concentration | | | | |
| | | 1 mM | | 8.5361 mL | 42.6803 mL | 85.3606 mL |
| 5 mM | | | 1.7072 mL | 8.5361 mL | 17.0721 mL | |
| | 10 mM | | 0.8536 mL | 4.2680 mL | 8.5361 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | | |
| In Vivo | 1. Add each solvent one by one: PBS Solubility: 100 mg/mL (853.61 mM); Clear solution; Need ultrasonic | | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | 5-Aminovaleric acid is believed to act as a methylene homologue of gamma-aminobutyric acid (GABA) and functions as a weak GABA agonist. |
| IC ₅₀ & Target | Human Endogenous Metabolite |
| In Vitro | 5-Aminovaleric acid is a normal metabolite present in human saliva, with a tendency to elevated concentration in patients with chronic periodontitis ^[1] . 5-Aminovaleric acid is also believed to act as a methylene homologue of gamma-aminobutyric acid (GABA) and functions as a weak GABA agonist ^[2] . It is also known as an antifibrinolytic amino acid analog and so it functions as a weak inhibitor of the blood clotting pathway ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Syrjänen S, et al. Free amino-acid content of wax-stimulated human whole saliva as related to periodontal disease. Arch Oral Biol. 1987;32(9):607-10.
 - [2]. Callery PS, et al. 1-Piperidine as an in vivo precursor of the gamma-aminobutyric acid homologue 5-aminopentanoic acid. J Neurochem. 1985 Sep;45(3):946-8.
 - [3]. Cole KR, et al. The binding of antifibrinolytic amino acids to kringle-4-containing fragments of plasminogen. Arch Biochem Biophys. 1984 Mar;229(2):568-75.
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Caution: Product has not been fully validated for medical applications. For research use only.

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