

## ACTH 1-14 acetate(25696-21-3 free base)

### Chemical Properties

CAS No. :

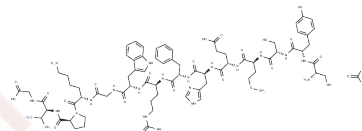
Formula: C79H113N21O22S

Molecular Weight: 1740.96

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



### Biological Description

|               |   |
|---------------|---|
| Description   | ACTH 1-14 acetate(25696-21-3 free base) (Adrenocorticotrophic Hormone Fragment 1-14 acetate) is a fragment of adrenocorticotrophin, which regulates cortisol and androgen production. Adrenocorticotrophic hormone (ACTH), also known as corticotropin, is produced and secreted by the anterior pituitary gland. ACTH is an important component of the hypothalamic-pituitary-adrenal axis as a response to biological stress. |
| Targets(IC50) | Adrenergic Receptor   |
| In vitro      | Adrenocorticotrophic hormone (ACTH) is a tropic hormone produced by the anterior pituitary, regulates cortisol and androgen production and is associated with Addison disease, Cushing syndrome and Cushing disease[1].   |

### Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 2.5 mM, Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.5744 mL | 2.872 mL  | 5.744 mL  |
| 5 mM  | 0.1149 mL | 0.5744 mL | 1.1488 mL |
| 10 mM | 0.0574 mL | 0.2872 mL | 0.5744 mL |
| 50 mM | 0.0115 mL | 0.0574 mL | 0.1149 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mulabegović N, et al. Pharmacodynamic properties of a combination of met-enkephalin and alpha 1-13 adrenocorticotrophic hormone. Med Arh. 2008;62(1):41-4.

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