

CJC-1295 acetate(863288-34-0 free base)

## Chemical Properties

CAS No. :

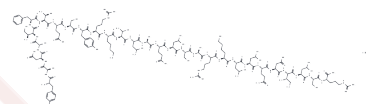
Formula: C154H256N44O44

Molecular Weight: 3428.01

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   | CJC-1295 acetate(863288-34-0 free base) (DAC:GRF acetate) is a synthetic analogue of growth hormone-releasing hormone (GHRH) (also known as growth hormone-releasing factor (GRF)) and a growth hormone secretagogue (GHS)  |
| Targets(IC50) | GHSR  |
| In vivo       | CJC-1295 markedly increases plasma growth hormone (GH) and insulin-like growth factor 1 (IGF-1) levels in both animals and humans.[1] With a single injection, in human subjects, CJC-1295 increases plasma GH levels by 2- to 10-fold for 6 days or longer and plasma IGF-1 levels by 0.5- to 3-fold for 9 to 11 days.[3] The drug has an estimated half-life of about 6 to 8 days in humans.[3] With multiple doses of CJC-1295, IGF-1 levels were found to remain elevated in humans for up to 28 days |

## Solubility Information

|            |  |
|------------|--|
| Solubility | DMSO: 127.5 mg/mL (37.19 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

### Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg      |
|-------|-----------|-----------|-----------|
| 1 mM  | 0.2917 mL | 1.4586 mL | 2.9171 mL |
| 5 mM  | 0.0583 mL | 0.2917 mL | 0.5834 mL |
| 10 mM | 0.0292 mL | 0.1459 mL | 0.2917 mL |
| 50 mM | 0.0058 mL | 0.0292 mL | 0.0583 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

Jetté L, Léger R, Thibaudeau K, Benquet C, Robitaille M, Pellerin I, et al. (July 2005). "Human growth hormone-releasing factor (hGRF)1-29-albumin bioconjugates activate the GRF receptor on the anterior pituitary in rats: identification of CJC-1295 as a long-lasting GRF analog". *Endocrinology*. 146 (7): 3052-8.

Alba M, Fintini D, Sagazio A, Lawrence B, Castaigne JP, Frohman LA, Salvatori R (December 2006). "Once-daily administration of CJC-1295, a long-acting growth hormone-releasing hormone (GHRH) analog, normalizes growth in the GHRH knockout mouse". *American Journal of Physiology. Endocrinology and Metabolism*. 291 (6): E1290-4

Teichman SL, Neale A, Lawrence B, Gagnon C, Castaigne JP, Frohman LA (March 2006). "Prolonged stimulation of growth hormone (GH) and insulin-like growth factor I secretion by CJC-1295, a long-acting analog of GH-releasing hormone, in healthy adults". *The Journal of Clinical Endocrinology and Metabolism*. 91 (3): 799-805.

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