

# 产品说明书

## Product Specification

|                   |                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------|
| 产品名称              | Acyl-CoA synthetase(ACS)                                                                    |
| Product Name      |                                                                                             |
| 货号                | CSB-DE008                                                                                   |
| Catalog Number    |                                                                                             |
| 产品形态              | White powder, lyophilized                                                                   |
| Formation         |                                                                                             |
| 来源                | Recombinant                                                                                 |
| Source            |                                                                                             |
| EC 编号             | EC 6.2.1.3                                                                                  |
| EC Number         |                                                                                             |
| CAS 编号            | 9013-18-7                                                                                   |
| CAS Number        |                                                                                             |
| 存储条件              | Store at $\leq -20^{\circ}\text{C}$                                                         |
| Storage           |                                                                                             |
| 有效期               | $-20^{\circ}\text{C}$ for 18 months                                                         |
| Valid Period      |                                                                                             |
| 分子量               | 77 kDa (SDS-PAGE)                                                                           |
| Molecular weight  |                                                                                             |
| 最适 pH             | 7.5                                                                                         |
| Optimum pH        |                                                                                             |
| 最适温度              | $50^{\circ}\text{C}$                                                                        |
| Optimum           |                                                                                             |
| pH 稳定性            | 6.5~7.5 ( $25^{\circ}\text{C}$ , 18hr)                                                      |
| pH Stability      |                                                                                             |
| 热稳定性              | $< 45^{\circ}\text{C}$ (pH 7.5, 10min)                                                      |
| Thermal stability |                                                                                             |
| 抑制剂               | $\text{Ag}^{+}$ , $\text{Hg}^{2+}$ , $\text{Fe}^{3+}$ , $\text{Zn}^{2+}$ , $\text{Cu}^{2+}$ |
| Inhibitors        |                                                                                             |
| 比活                | $\geq 5 \text{ U/mg-protein}$                                                               |
| Specific activity |                                                                                             |
| 活性定义              | One unit will convert one micromole of fatty acid to acyl-CoA per min at pH 7.5             |
| Unit definition   | at $37^{\circ}\text{C}$ .                                                                   |
| 运用                | This enzyme has useful applications in the free fatty acids in blood.                       |
| Application       |                                                                                             |