

# Active Native Clostridium perfringens Choloylglycine Hydrolase

**Cat. No.** Neuraminidase-011C    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Protein, ≥50% biuret                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>                  | Clostridium perfringens (C. welchii)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Form</b>                     | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>CAS Number</b>               | 37289-07-9                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Enzyme Commission number</b> | 3.5.1.24 (BRENDA, IUBMB)                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MDL number</b>               | MFCD00130789                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>UNSPSC Code</b>              | 12352204                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>NACRES</b>                   | NA.54                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Biochem/physiol Actions</b>  | The enzyme is an N-terminal nucleophilic (Ntn) hydrolase that catalyzes the hydrolysis of amide bonds, liberates the glycine/taurine moiety from the steroid core and eventually yields unconjugated bile acids. Agents that oxidize thiol groups (e.g., p-mercuribenzoate, iodoacetamide, Hg <sup>2+</sup> , Cu <sup>2+</sup> , and Cd <sup>2+</sup> ) have been shown to strongly inhibit bile salt hydrolase (BSH) activity in Clostridium perfringens. |
| <b>Bio-activity</b>             | ≥100 units/mg protein                                                                                                                                                                                                                                                                                                                                                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Definition</b>  | One unit will hydrolyze 1.0 $\mu$ mole of glycocholic acid to glycine and cholic acid in 5 min at pH 5.6 at 37 centigrade. |
| <b>Applications</b>     | The enzyme has been used in the analysis of bile samples in various studies.                                               |
| <b>Storage</b>          | At -20 centigrade                                                                                                          |
| <b>Storage Buffer</b>   | Partially purified lyophilized powder containing buffer salts and stabilizer                                               |
| <b>Shipping</b>         | Wet ice                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                            |
| <b>Official Symbol</b>  | Neuraminidase                                                                                                              |
| <b>Synonyms</b>         | 3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -Trihydroxy-5 $\beta$ -cholan-24-oylglycine amidohydrolase                             |

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