

# 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

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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.
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<b>Applications</b>	The enzyme has been used in the analysis of bile samples in various studies.
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<b>Storage</b>	At -20 centigrade
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<b>Storage Buffer</b>	Partially purified lyophilized powder containing buffer salts and stabilizer
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<b>Shipping</b>	Wet ice
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## GENE INFORMATION

<b>Official Symbol</b>	Neuraminidase
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<b>Synonyms</b>	3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -Trihydroxy-5 $\beta$ -cholan-24-oylglycine amidohydrolase
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