

Active Native Clostridium perfringens Choloylglycine Hydrolase

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

SPECIFICATION

Product Overview	Protein, ≥50% biuret
Species	Clostridium perfringens (C. welchii)
Form	Lyophilized powder
CAS Number	37289-07-9
Enzyme Commission number	3.5.1.24 (BRENDA, IUBMB)
MDL number	MFCD00130789
UNSPSC Code	12352204
NACRES	NA.54
Biochem/physiol Actions	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 ²⁺ , Cu ²⁺ , and Cd ²⁺) have been shown to strongly inhibit bile salt hydrolase (BSH) activity in Clostridium perfringens.
Bio-activity	≥100 units/mg protein

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

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