

Pertussis Toxin from Bordetella pertussis

01-503 $25 \,\mu g$

Perrtussis toxin (PT) is a protei-based AB5-type exotoxin produced by Bordeterra pertussis. PT catalyzes the ADP-ribosylation of the α subunits of the heterotrimeric guanine nucleotide regulatory proteins Gi, G o, and G t and prevents intracellular signal transduction involving the –proteins.PT consists of one moplecule of each S1 (26 kDa), S2 (22 kDa), S3 (22 kDa), S5 (12 kDa) and two molecule of S4 (12 kDa) . Yhis product was highly purified (>90% pure) from Bordetella pertussis strain Tohama by the method of Skelton & Wong¹). Cytotoxicity of the PT was confirmed by morphological alteration of CHOcells after treatment of 0.1 ng/ml of the PT (see the Figure below).

Application

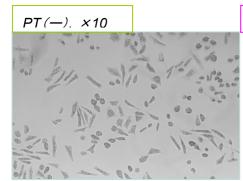
- 1. Studies on the signal transduction of the trimeric GTP binding proteins.
- 2. Therapeutic role in treating a number of diseases including hypertention, viral inhibition, and autoimumune inhibition.

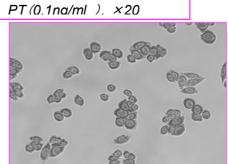
State: 65 µg/ml in 50% glycerol, 10 mM phosphate buffer pH 7.3, 75 mM NaCl **Storage**: -20°C (long period ; -70 \square)

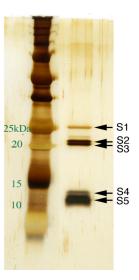
Reference

 Skelton, SK and Wong KH, J. Clin. Microbiol. 28:1062-1065 (1990)
Alouf JE & Popoff MR (Ed.) The comprehensive Sourcebook of Bacterial Protein Toxins. #rd Ed. Academic Press (2006)

Assay: PT 0.1 ng/ml, 37□, 17 hr in the culture medium of CHO cells







Left: Control culture without PT CHO cells treated with PT at 0.1 ng/ml

* Research use only, not tobe used for humans

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