

Recombinant Staphylococcal Enterotoxin Q (SEQ)

Catalog #: 0533-001

Lot #: 1909001

Description: Recombinant SEQ expressed in *E. coli* and purified to >90% using chromatographic methods.

Relevance: SEQ is a pyrogenic toxin superantigen secreted by *Staphylococcus aureus*. SEQ is a powerful activator of T-lymphocytes resulting in substantial cytokine release that can cause severe pathological consequences.

rSEQ can be utilized as a control in ELISA and Western blot assays. rSEQ can also be used as a potent mitogen, or as an activator of cytokines in Peripheral Blood Mononuclear Cells (PBMC).

Storage: 2-3 weeks at -20°C, -80°C long term

Size: 100 µg of protein is supplied in sodium phosphate buffer containing sodium chloride and 5% glycerol, at a concentration of 1.125 mg/mL. The theoretical molecular weight is 25,053 Daltons.

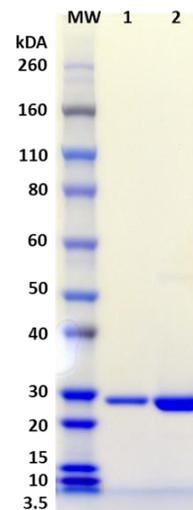
Recommended Use and Dilutions:

ELISA: Assay-dependent dilution

WB: Assay-dependent dilution

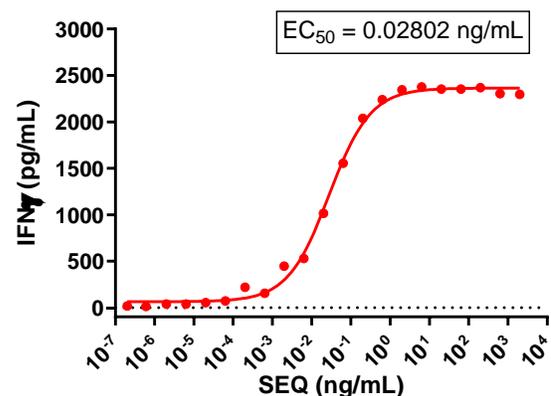
PBMC Stimulation assay: Stimulation of PBMCs using rSEQ generates Interferon γ .

SDS-PAGE



SDS-PAGE of rSEQ at 1 µg and 5 µg (lanes 1 and 2, respectively) when tested under reducing condition.

PBMC Stimulation Assay



Interferon γ was detected from human PBMCs by ELISA following 48-hour incubation of PBMCs with varying amounts of rSEQ. Data shown in the graph above, represent the average Interferon γ value from three PBMC donors.

For additional *S. aureus* products, please visit:

<http://www.ibtbioservices.com/reagents/staphylococcus/>

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