

## TPCK, Serine protease inhibitor

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Catalog	Unit
TBI2290-500MG	500 mg

### Product Details

**Formal Name:** N-p-Tosyl-L-phenylalanine chloromethyl ketone

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>ClNO<sub>3</sub>S

**Formula Weight:** 351.80

**CAS Number:** 402-71-1

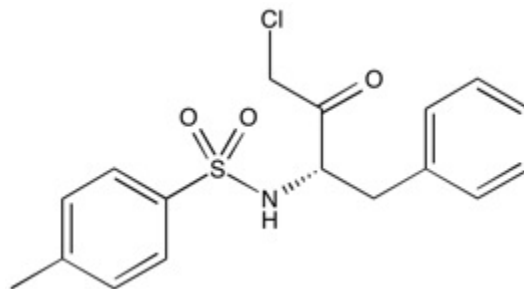
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 10 mg/ml).

**Storage:** -20°C

**Stability:** ≥ 1 year.



### Applications

Serine protease inhibitor

### Functions

TPCK is an irreversible inhibitor of the serine protease chymotrypsin. It also inhibits certain cysteine proteases (bromelain, ficin, papain). TPCK inhibited (IC<sub>50</sub> = 5 μM) the mitogen-induced activation of pp70s6k, a mitogen-regulated serine/threonine kinase involved in the G1 to S phase transition of the cell cycle.

### Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20° for up to 3 months.

**For research use only.**