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A Geno Technology, Inc. (USA) brand name

# OneQuant™ DTT

(Cat. # 786-077)



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## INTRODUCTION

DTT is a common reducing agent used for the cleavage of disulfide bonds. OneQuant™ DTT are single aliquots of DTT that eliminate the need for weighing, preventing loss of reagent and saving time.

## ITEM(S) SUPPLIED (Cat. # 786-077)

Description	Size
OneQuant™ DTT	7.7mg/vial; 5 strips of 8 vials each

## STORAGE CONDITIONS

Shipped at ambient temperature. Upon receipt, store product at -20°C.

## INFORMATION

- **Synonyms:** 1, 4-Dithiothreitol; DTT; Cleland's Reagent; 1,4-Dimercapto-2,3-Butanediol
- **Molecular Weight:** 154.24
- **Formula:**  $C_2H_{10}O_2S_2$
- **Appearance:** white solid

## PROTOCOL

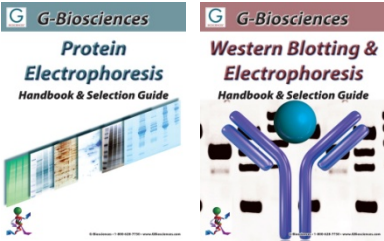
1. Cut an individual vial from the unused vials. Open the vial and add 90µl distilled water or buffer, to generate a 500mM solution.
2. Gently mix with a pipette tip, or with gentle vortexing. The DTT normally dissolves within 30 seconds.
3. Use the DTT solution immediately and discard any unused DTT solution.

### **Recommended Concentrations**

1. For protein lysis, to prevent inactivation by oxidization, use at final concentration 0.1-1.0mM
2. For electrophoresis loading buffers, use at final concentration 100mM
3. For prevention of oligomerization during crystallization, use at final concentration 5mM
4. For the complete reduction of protein disulfide bridges, use at final concentration 10-100mM in conjunction with a denaturing agent, such as 6M guanine hydrochloride or urea.

## RELATED PRODUCTS

Download our Protein Electrophoresis and Western Blotting Handbooks.



<http://info.gbiosciences.com/complete-protein-electrophoresis-handbook/>

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Last saved: 7/26/2012 CMH



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