

Store at 4°C

#7016

DTT (Dithiothreitol)

192.8 mg

Cell Signaling
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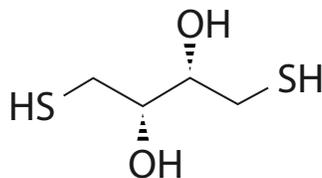
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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: Dithiothreitol (DTT) from Cell Signaling Technology is offered in a convenient 192.8 mg lyophilized format, allowing for preparation of a fresh stock solution. This DTT reagent contains no detectable DNase or RNase activity and is suitable for use in molecular biology or protein biochemistry applications that require reduction of protein disulfide bonds.

SDS-PAGE sample buffers are routinely supplemented with 10–50 mM DTT to cleave protein disulfide bonds. Lower concentrations of DTT are routinely used to stabilize enzymes or other proteins that possess free sulfhydryl groups, which is useful in chromatin immunoprecipitation (ChIP) assays.

Molecular Formula: C₄H₁₀O₂S₂



Molecular Weight: 154.25 g/mol

Solubility: Soluble in water at 1,500 mg/ml

Purity: >99%

Storage: Store lyophilized at 4°C, desiccated. In lyophilized form, the chemical is stable for 12 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use: DTT is supplied as a lyophilized powder. To prepare a 1 M stock solution, reconstitute the 192.8 mg supplied in the product tube in 1.12 ml ddH₂O. The dissolved DTT will increase the final volume to approximately 1.25 ml.

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