

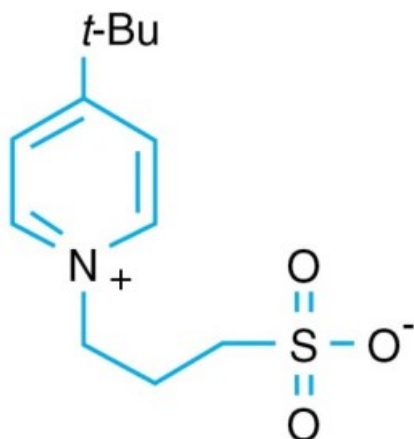


# NDSB-256-4T - 5 g

Crystallization grade NDSB-256-4T for formulating screens or for optimization

## Product codes:

Reference: HR 2794



## Product gallery:



## Product description:

- Efficiently solubilizes proteins at non-denaturing concentrations
- Useful in preventing protein aggregation
- Non detergent sulfobetaines (NDSB) are used for protein folding, renaturation and crystallization
- Protein specific additive for solubility and stability
- NDSB 256 4T is a non-detergent sulfobetaine (NDSB) that prevents protein aggregation and facilitates protein folding by interacting with the early folding intermediates. Reported to improve the in vitro renaturation efficiency of reduced hen egg lysozyme (60% enzymatic activity at 600 mM NDSB-256-4T) and chemically unfolded tryptophan synthase  $\beta$ 2 subunit (100% enzymatic activity at 1 M NDSB-256-4T).

The NDSB are a group of zwitterionic compounds that can reduce aggregation and aid in refolding proteins found in inclusion bodies and bacterial expression systems.

Non detergent sulfobetaines have a sulfobetaine hydrophilic group and a short hydrophobic group that cannot aggregate to form micelles, therefore NDSB's are not considered detergents. NDSB increase the extraction yield (up to 30%) of membrane, nuclear and cyto-skeletal associated proteins. The short hydrophobic groups combined with the charge neutralization of the sulfobetaine group results in higher yields of membrane proteins. NDSB have been used in refolding and renaturation of chemically and thermally denatured proteins.

Typical useful NDSB concentration in protein sample is 0.5-1.0 M.



NDSB-256-4T

Synonym: 3-(4-tert-Butyl-1-pyridino)-1-propane sulfonate, SB256-4T, SN2564T

C<sub>12</sub>H<sub>19</sub>NO<sub>3</sub>S

CAS Number [570412-84-9]

Mr 257.35

Purity = 98% by HPLC

Hygroscopic

Store at room temperature

Per maggiori informazioni visita il sito <https://hamptonresearch.com/>

**Product features:**

CRF - TIPO: NDSB-256-4T