

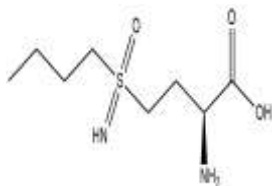
## PRODUCT: L-Buthionine-(S,R)-Sulfoximine

ALTERNATE NAME: 2S-amino-4-(S-butylsulfonimidoyl)-butanoic acid; NSC-326231; BSO

CATALOG #: B2305-10, 50

AMOUNT: 10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA: C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>3</sub>S

MOLECULAR WEIGHT: 222.30

CAS NUMBER: 83730-53-4

APPEARANCE: Crystalline solid

SOLUBILITY: PBS, pH 7.2 (~5 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: L-Buthionine-(S,R)-Sulfoximine is a potent, fast acting, irreversible inhibitor of gamma-glutamylcysteine synthetase the rate-limiting enzyme for L-glutathione (GSH) synthesis, that induces oxidative stress in cells by depleting GSH. Shown to improve the outcome of chemotherapy by lowering the levels of glutathione in cancer cells.

REFERENCES: Griffith, O.W., *et al.* (1982). *J. Biol. Chem.* **257**, 13704-13712.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

### RELATED PRODUCTS:

L-Buthionine-(S,R)-Sulfoximine (**B2305**)

Erastin (**2231**)

EZSolution™ Erastin (**B1502**)

Ferrostatin-1 (**2230**)

Glutathione Peroxidase Colorimetric Assay Kit (**K762**)

ML-162 (**B2304**)

RSL3 (**B2303**)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**