

Supporting Information

Effect of sulfur-containing side chains on transnitrosation of *N*-nitroso compounds of thiazolidines

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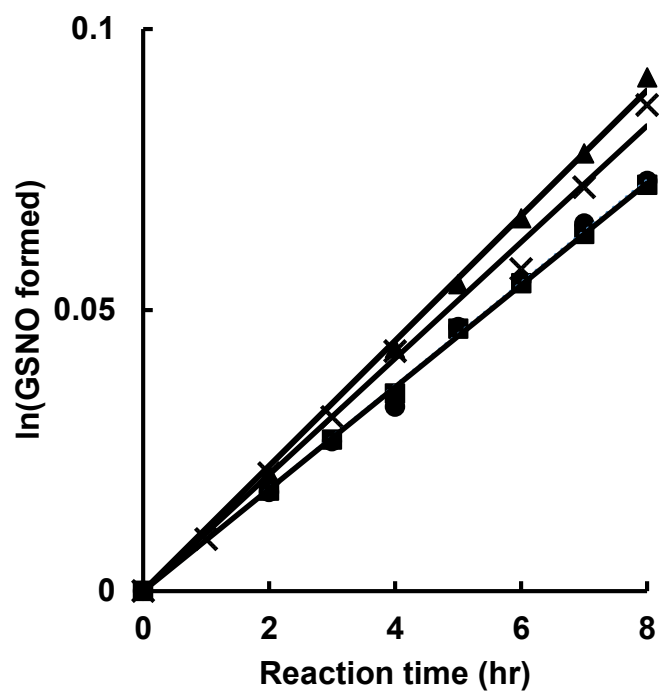


Figure S1. Formation of GSNO for buffer concentration studies by reaction of **2**. Reaction conditions are as follows: compound **2**, 0.45 mM; GSH, 5.0 mM; pH 1.5; phosphate buffer concentration, 50 mM(●), 100 mM(▲), 250 mM(■), 500 mM(×); 37°C

Table S1. k_{obs} for GSNO formation under the acidic conditions.

Concentration (mM)	$k_{obs} (\times 10^{-7}/s)$
50	25
100	31
250	29
500	29

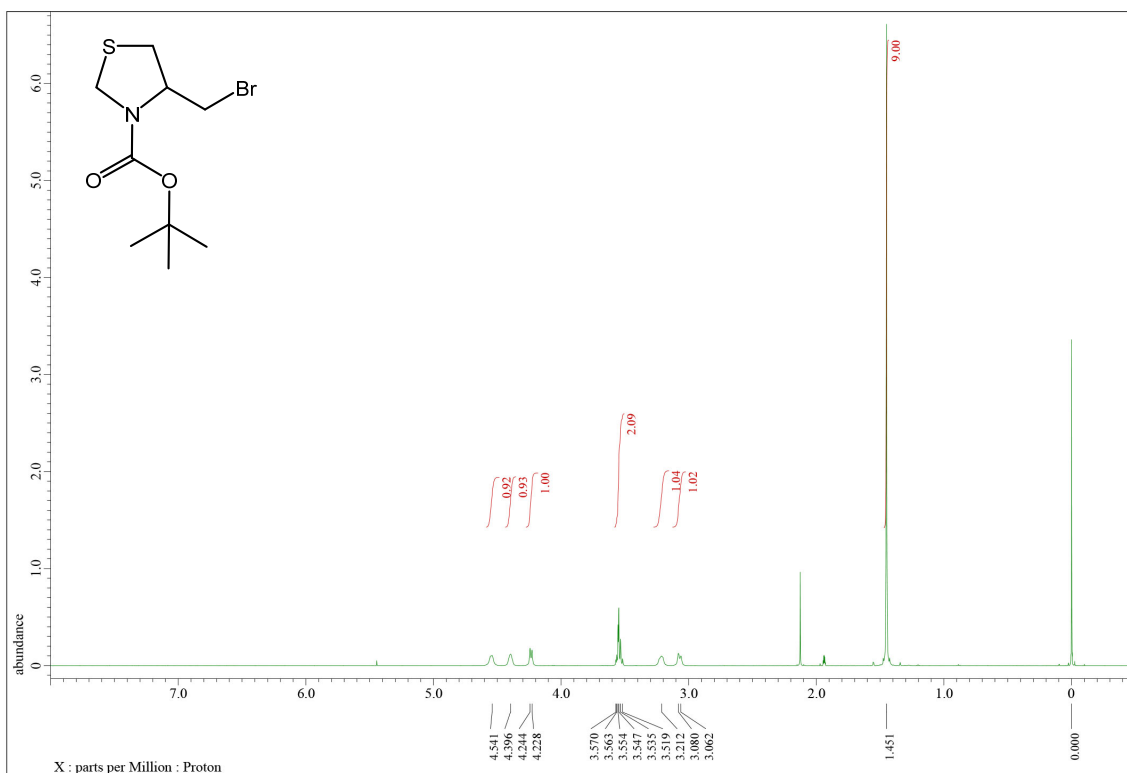


Figure S2-1. ^1H spectra of *t*-butyl 4-(bromomethyl)-1,3-thiazolidine-3-carboxylate in CD_3CN .

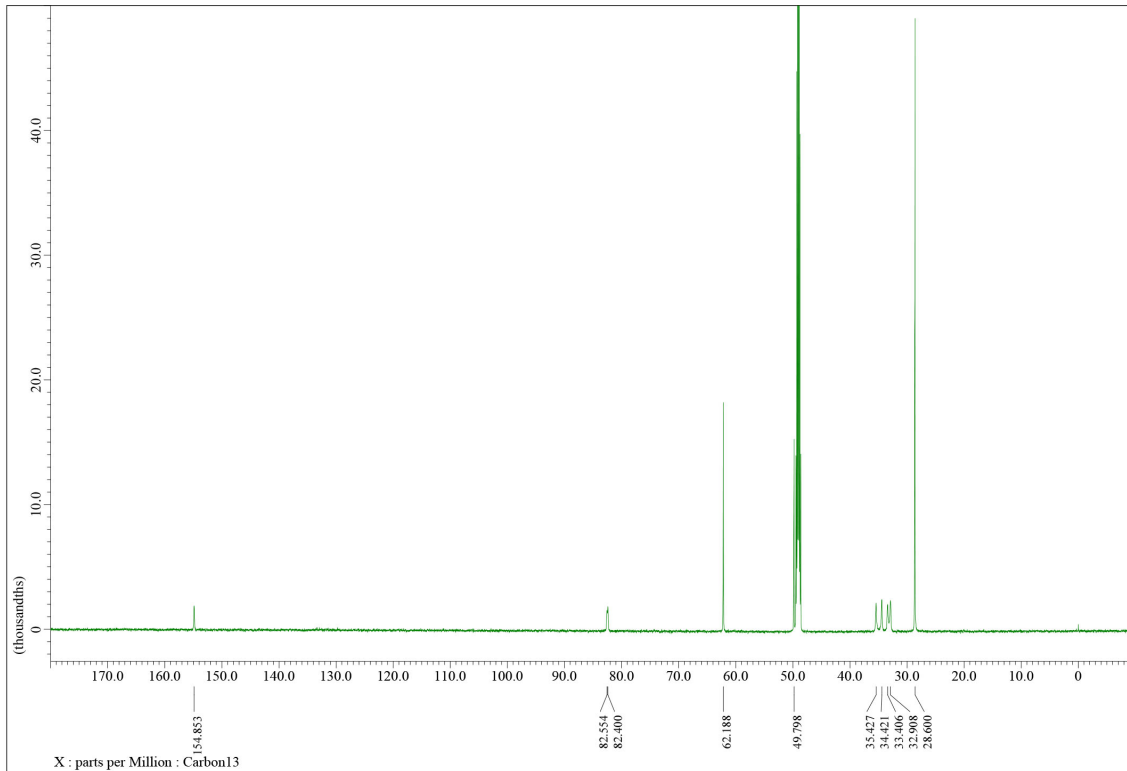


Figure S2-2. ^{13}C spectra of *t*-butyl 4-(bromomethyl)-1,3-thiazolidine-3-carboxylate in CD_3OD .

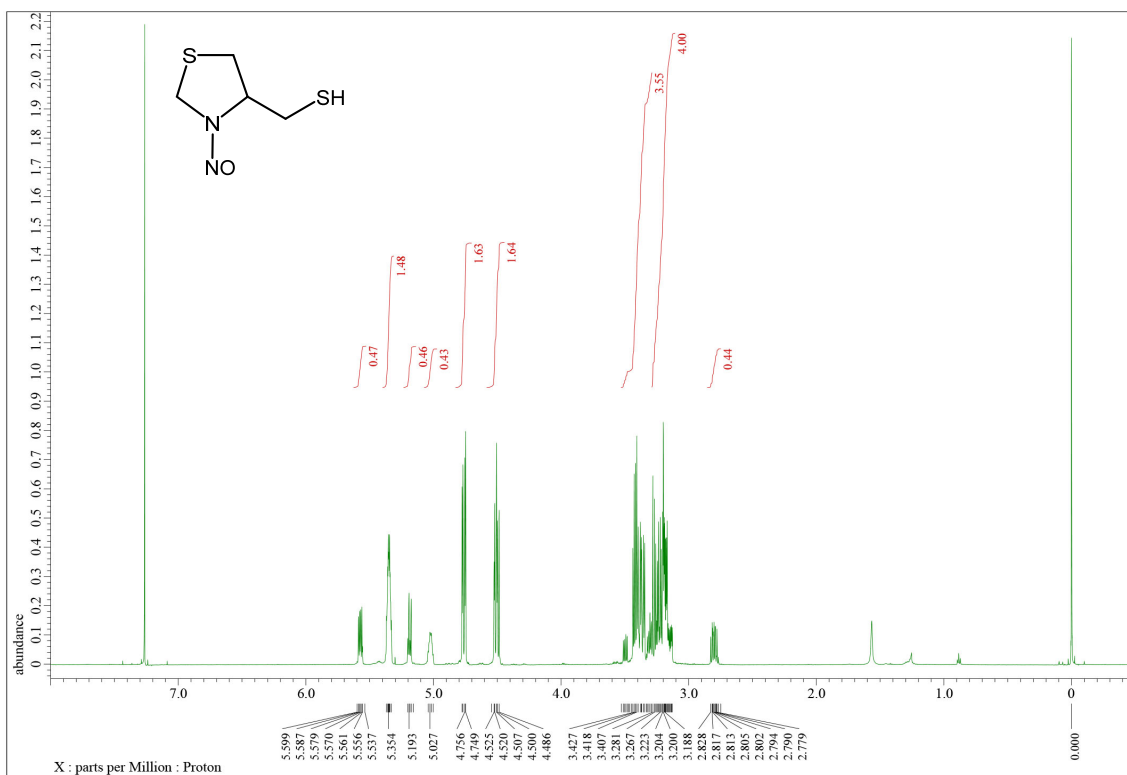


Figure S3-1. ^1H spectra of (3-nitroso-1,3-thiazolidin-4-yl)methanethiol in CDCl_3 .

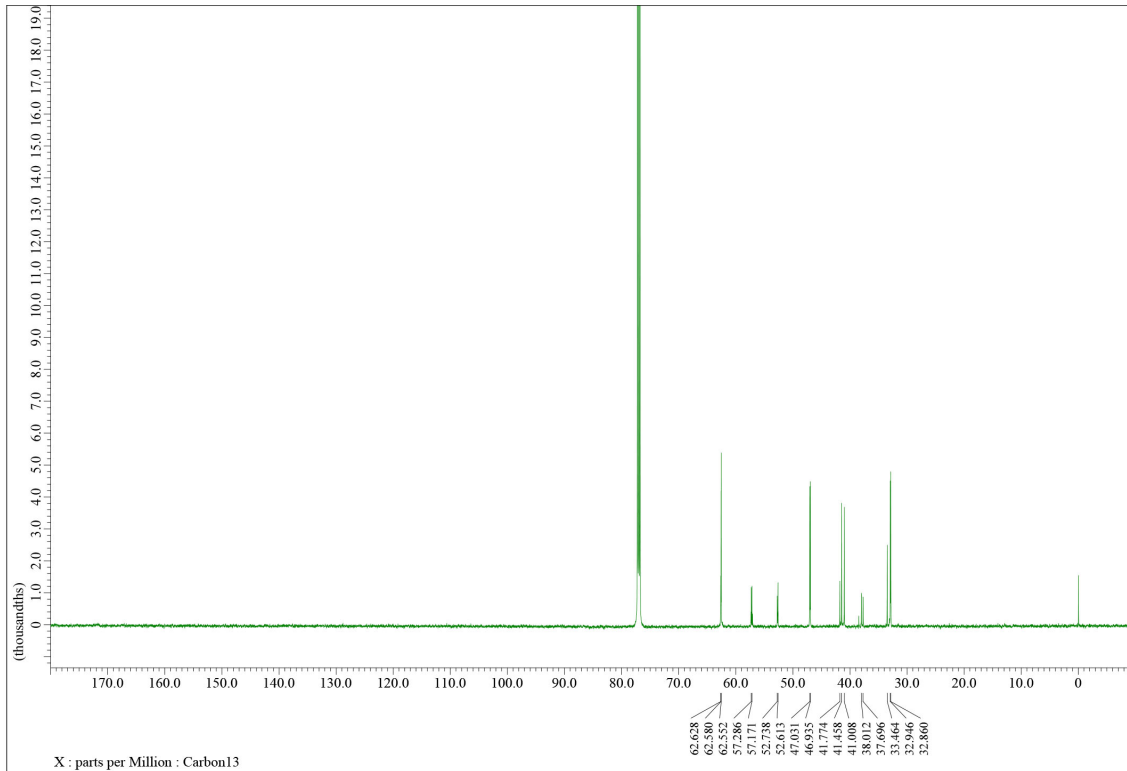


Figure S3-2. ^{13}C spectra of (3-nitroso-1,3-thiazolidin-4-yl)methanethiol in CDCl_3 .

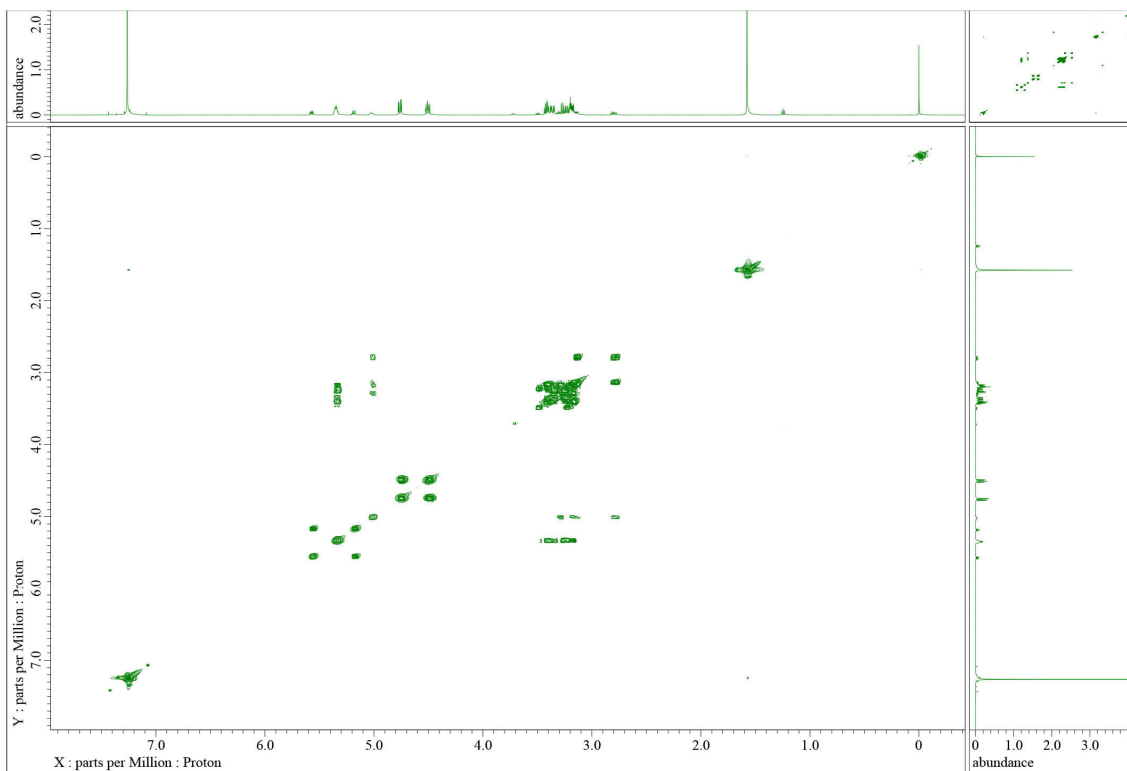


Figure S3-3. ^1H - ^1H COSY spectra of (3-nitroso-1,3-thiazolidin-4-yl)methanethiol.

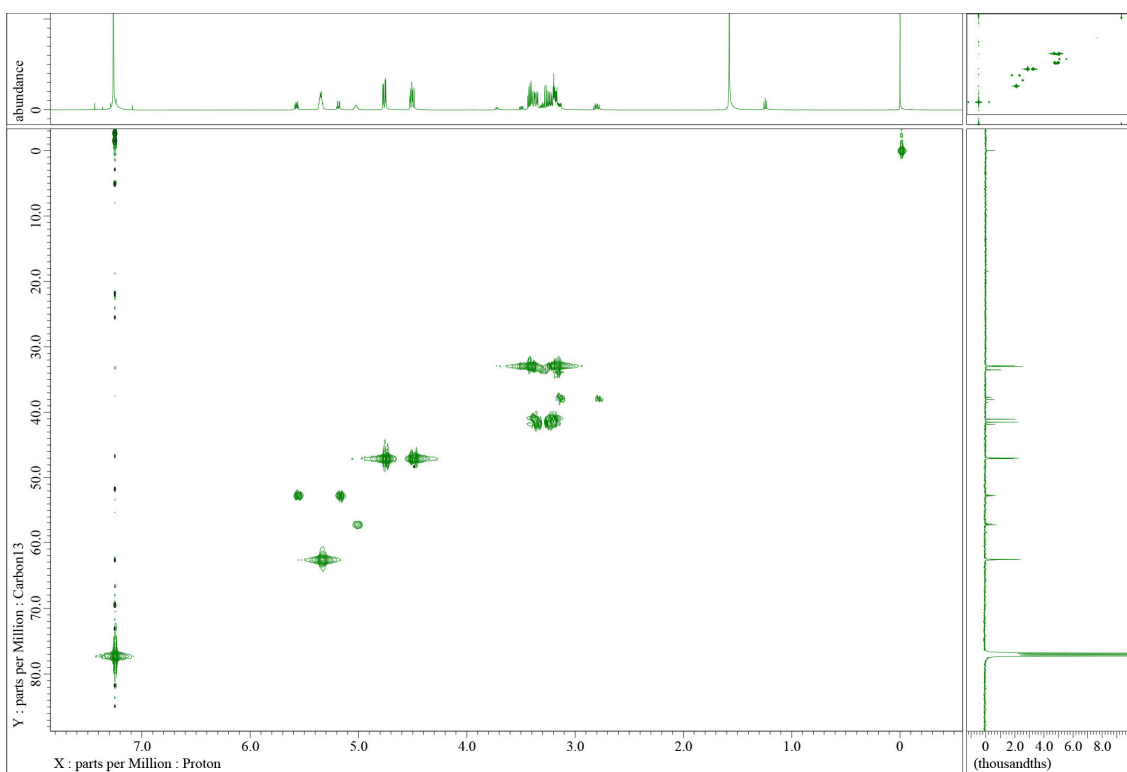


Figure S3-4. HMQC spectra of (3-nitroso-1,3-thiazolidin-4-yl)methanethiol.

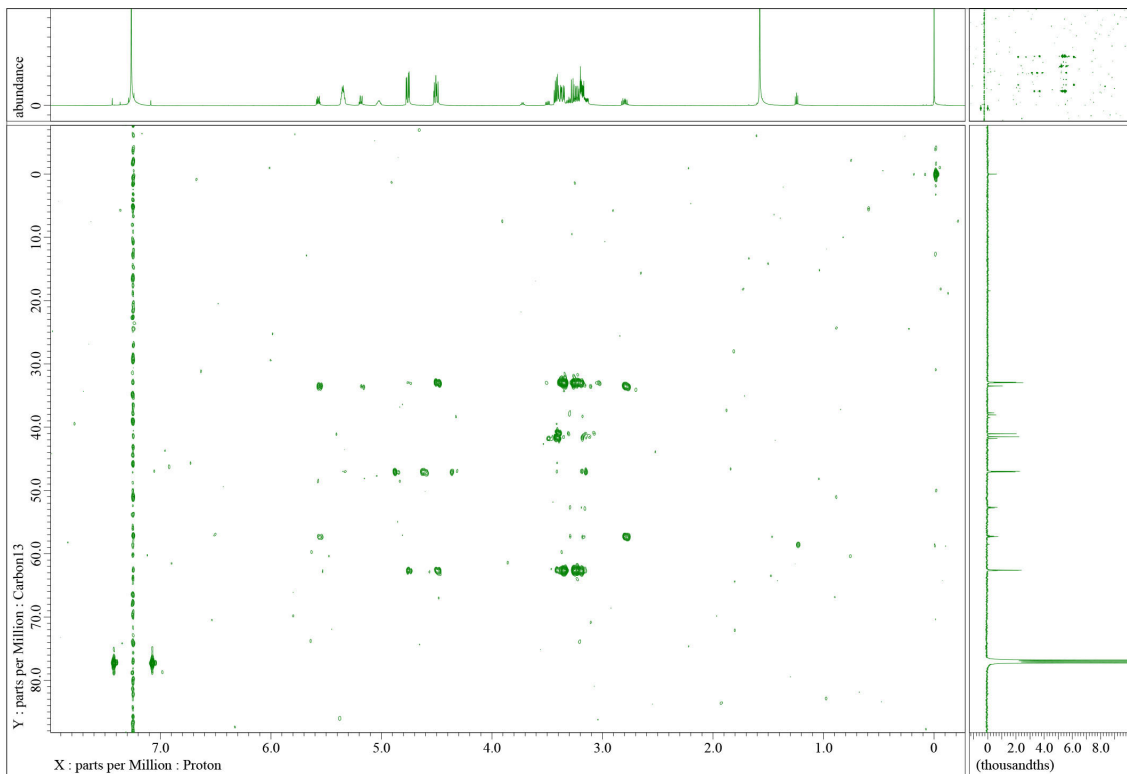


Figure S3-5. HMBC spectra of (3-nitroso-1,3-thiazolidin-4-yl)methanethiol.

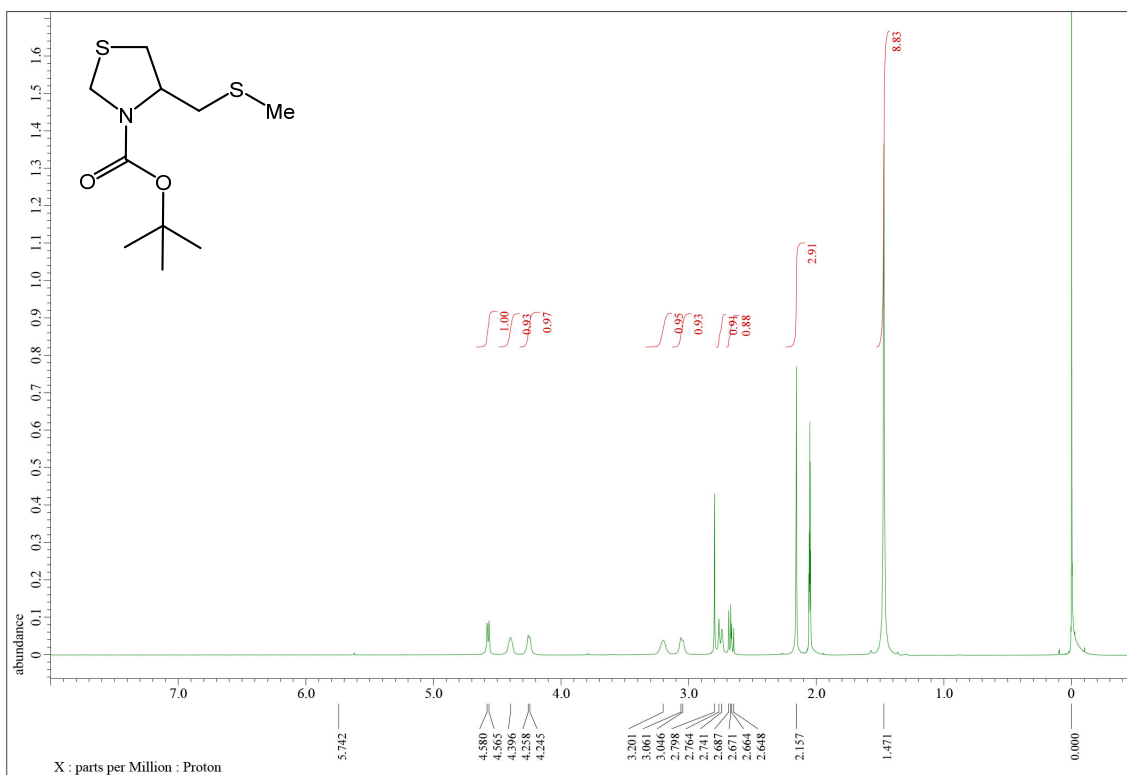


Figure S4-1. ¹H spectra of *t*-butyl 4-[(methylthio)methyl]thiazolidine-3-carboxylate in CDCl₃.

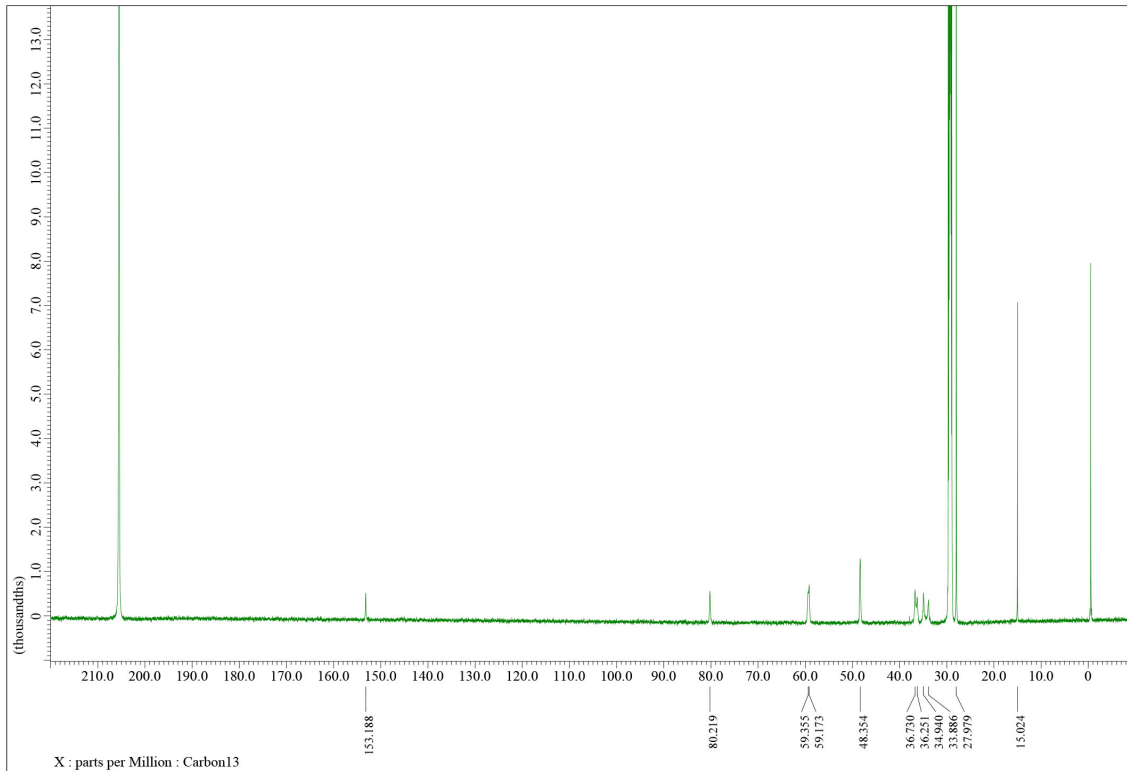


Figure S4-2. ¹³C spectra of *t*-butyl 4-[(methylthio)methyl]thiazolidine-3-carboxylate in CDCl₃.

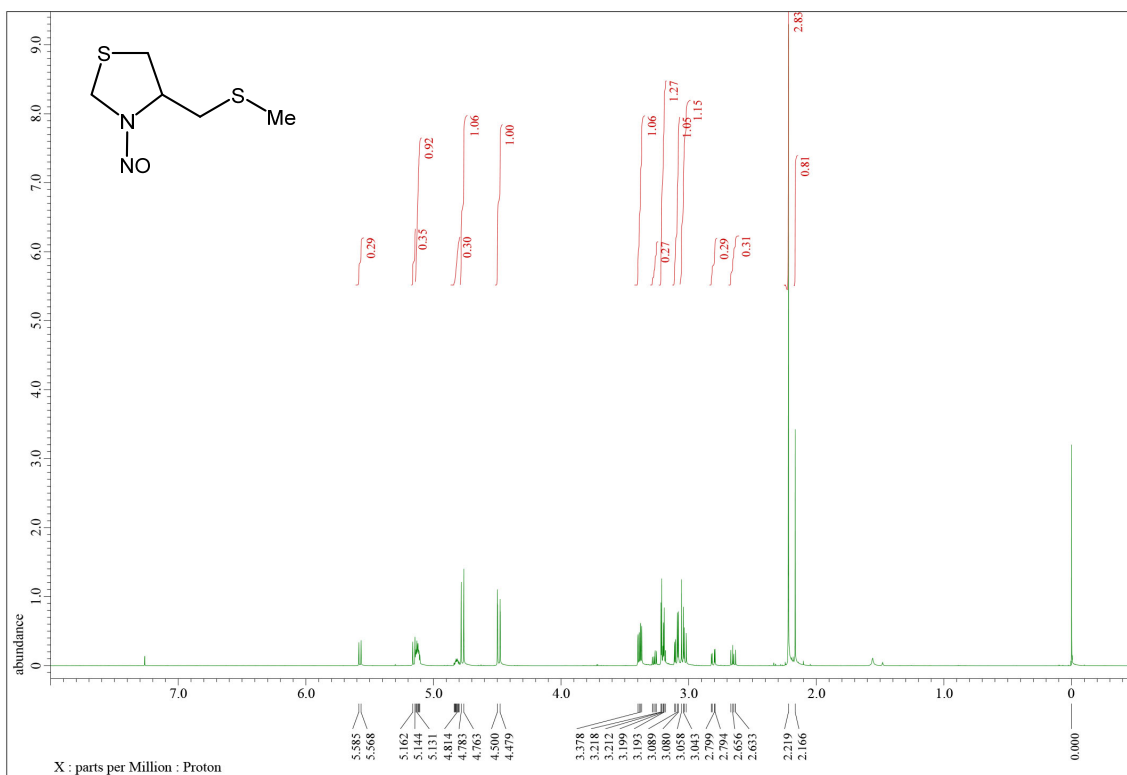


Figure S5-1. ^1H spectra of 4-[(methylthio)methyl]-3-nitrosotiazolidine in CDCl_3 .

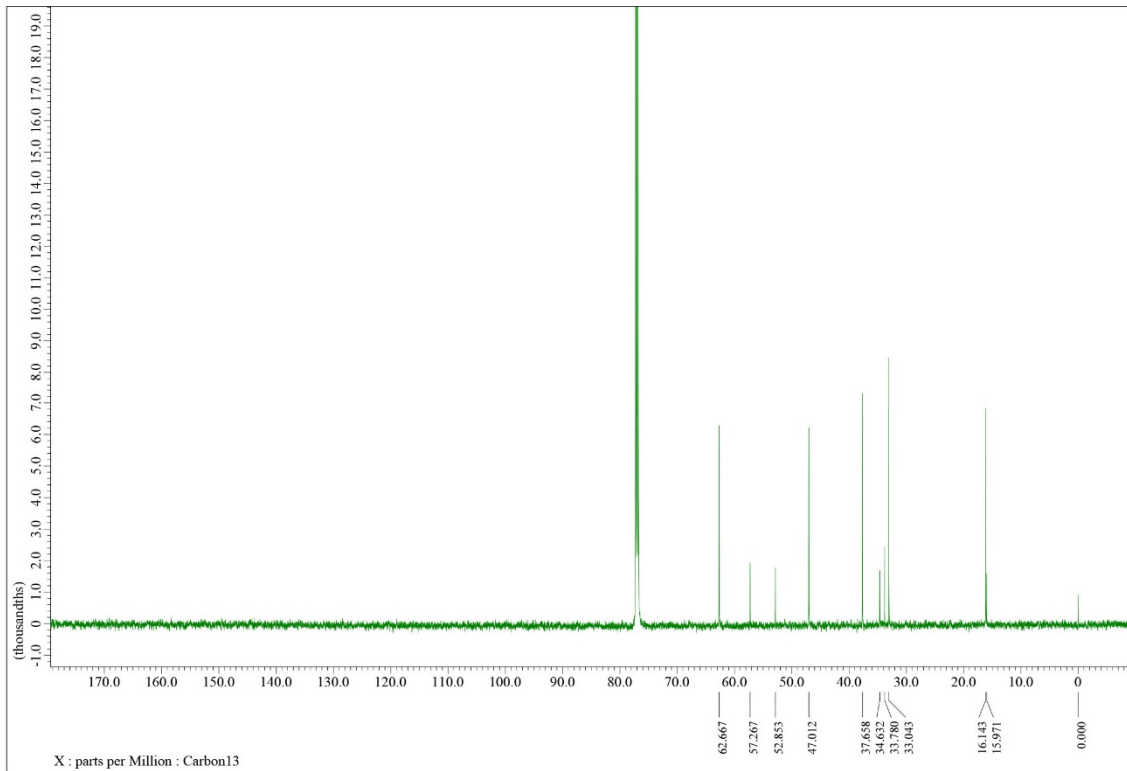


Figure S5-2. ^{13}C spectra of 4-[(methylthio)methyl]-3-nitrosotiazolidine in CDCl_3 .

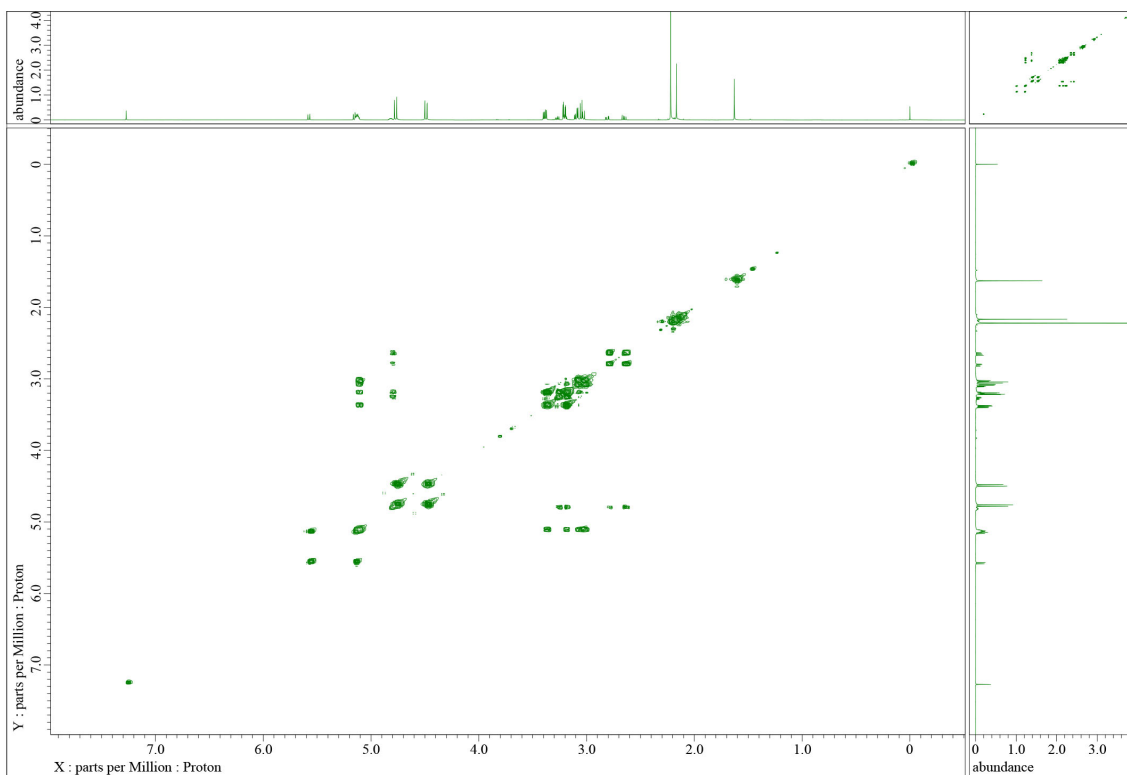


Figure S5-3. ^1H - ^1H COSY spectra of 4-[(methylthio)methyl]-3-nitrothiazolidine.

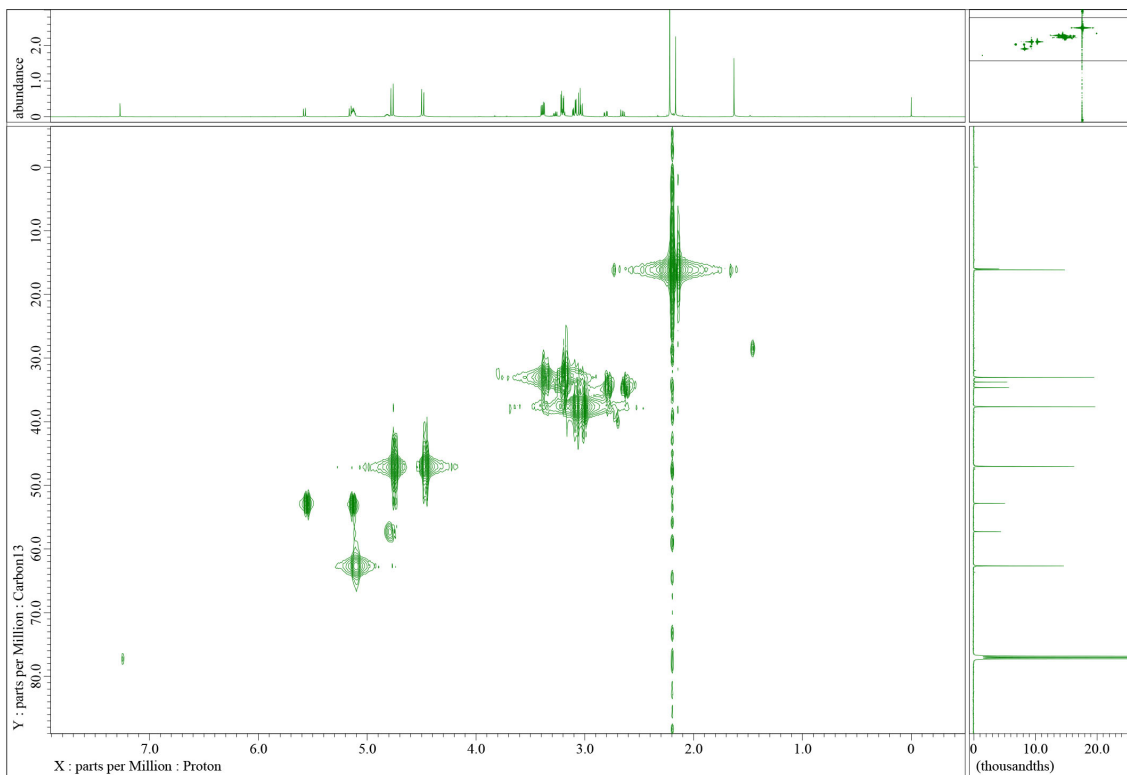


Figure S5-4. HMQC spectra of 4-[(methylthio)methyl]-3-nitrothiazolidine.

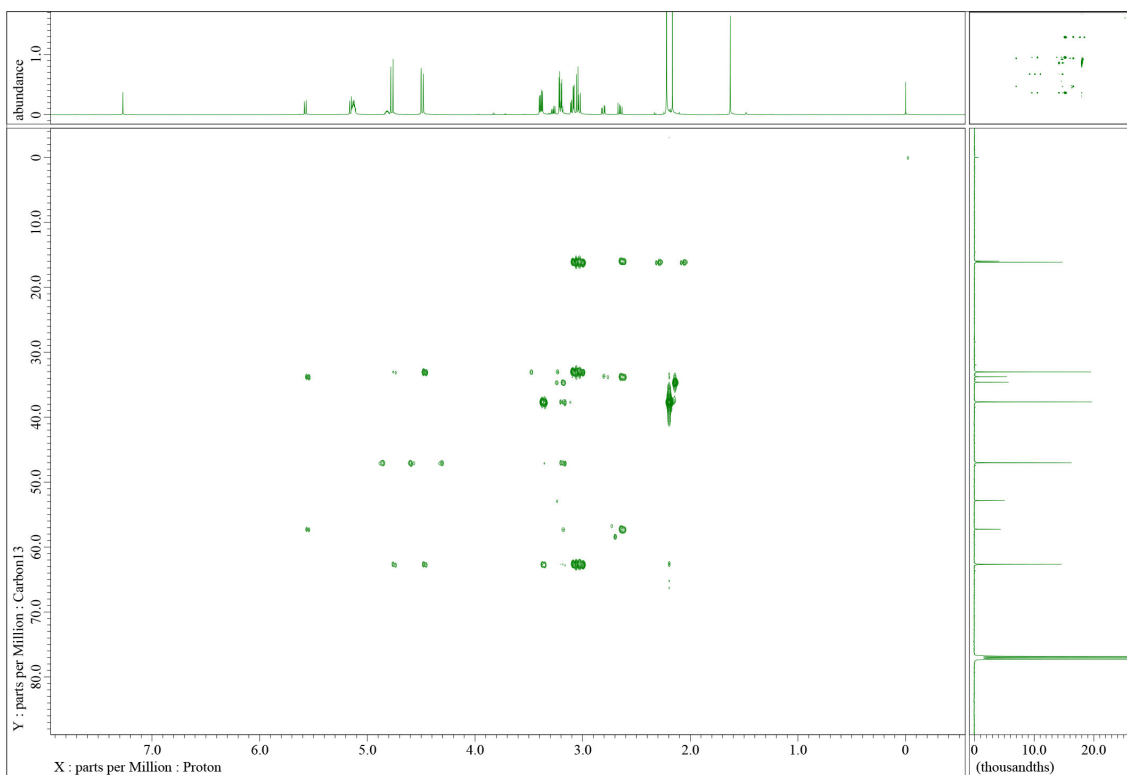


Figure S5-5. HMBC spectra of 4-[(methylthio)methyl]-3-nitrosythiazolidine.