



STRUCTURAL
BIOLOGY

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Supporting information for article:

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**Is dimerization a common feature in thioredoxins?: the case of
thioredoxin from *Litopenaeus vannamei***

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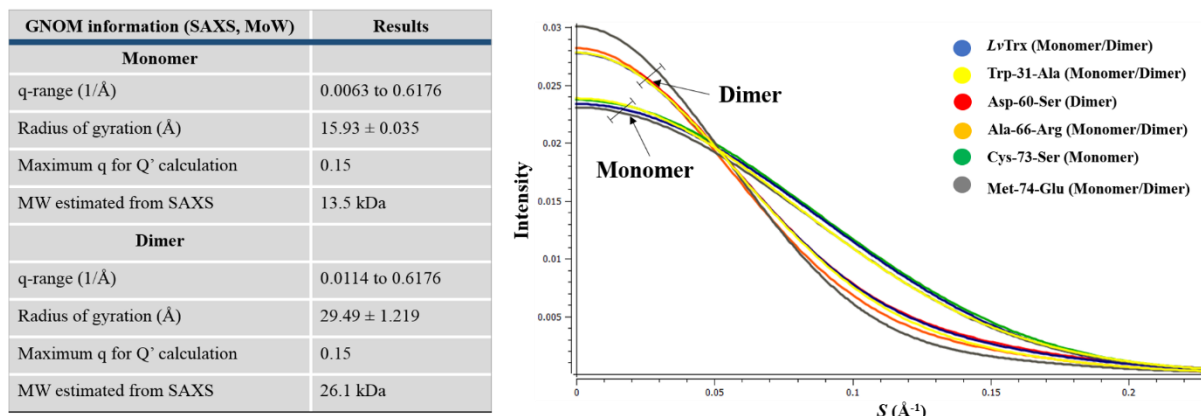
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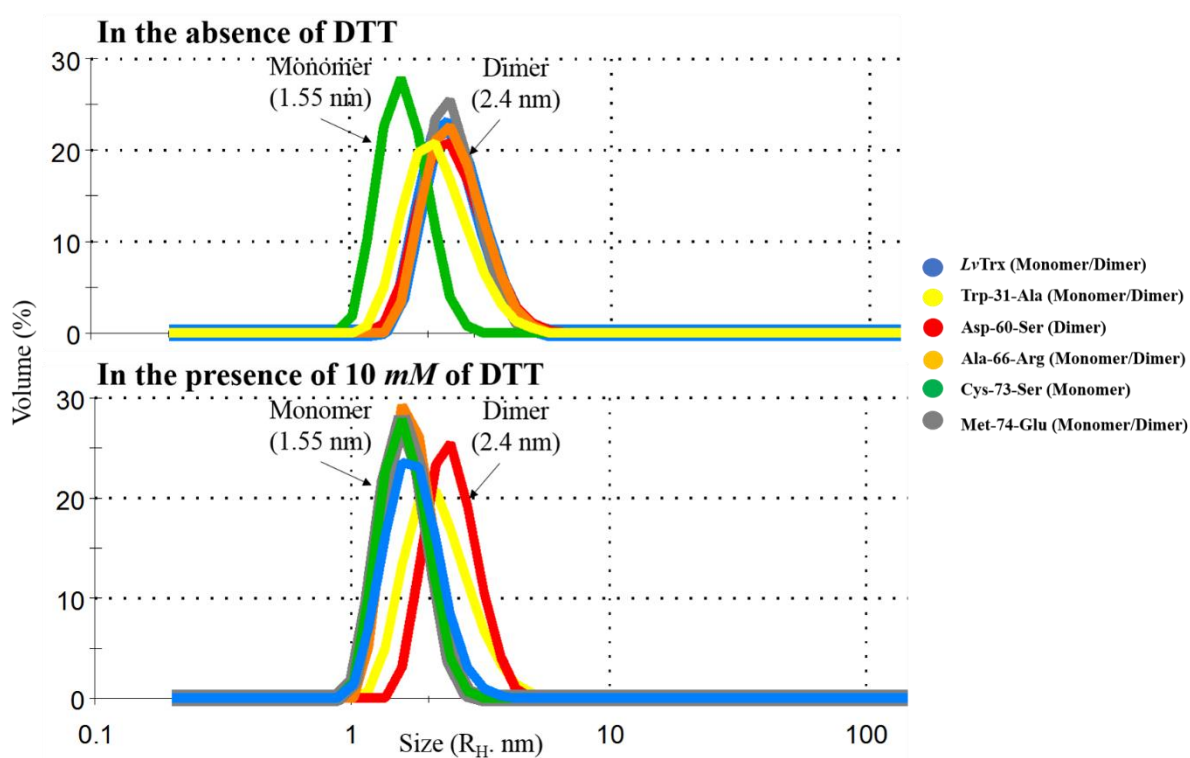
SAXS correlation function



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12 **Figure S1** Molecular mass calculations for the monomer and dimer populations of *LvTrx* wild type
 13 were 13 kDa and 26 kDa, respectively. Additionally, the SAXS correlation functions of all the *LvTrx*
 14 mutants are analyzed here. The molecular weight was calculated with the SAXS MoW webserver
 15 <http://saxs.ifsc.usp.br/> (Fischer et al., 2010).

Size distribution by volume



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17 **Figure S2** DLS results for all mutants and the *LvTrx* wild type were analyzed under the absence and
 18 the presence condition of DTT.



Figure S3 Sequence alignment showed that shrimp thioredoxin reductase (Ghaffari et al., 2014) and rat thioredoxin reductase (rat-Uniprot entry O89049) share 64 % identity of their sequences, suggesting that rat TrxR can also reduce LvTrx. The figure was made using the ESPript 3.0 webserver <http://esprict.ibcp.fr/ESPript/cgi-bin/ESPript.cgi> (Robert & Gouet, 2014).