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Data Sheet

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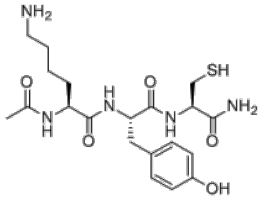
Product Name	:	N-acetyl lysyltyrosylcysteine amide
Cat. No.	:	PC-62579
CAS No.	:	1287585-40-3
Molecular Formula	:	$C_{20}H_{31}N_5O_5S$
Molecular Weight	:	453.56
Target	:	Other Targets
Solubility	:	100 mM in H2O



Biological Activity

N-acetyl lysyltyrosylcysteine amide (KYC) is a potent, tripeptide inhibitor of **myeloperoxidase** (MPO), inhibits MPO-mediated hypochlorous acid (HOCl) formation (IC50=7 uM) and nitration/oxidation of LDL.
N-acetyl lysyltyrosylcysteine amide completely inhibits HOCl production at 25 uM, decreases vascular oxidative stress and increases vasodilatation in sickle cell disease mice.
N-acetyl lysyltyrosylcysteine amide reduces oxidative stress-mediated inflammation, neuronal damage, and neural stem cell injury in murine model of stroke.

References

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Yu G, et al. ***J Neuroinflammation***. 2016 May 24;13(1):119.

Rymaszewski AL, et al. ***Cancers (Basel).*** 2014 May 9;6(2):1111-27.

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