

# Recombinant Salmonella typhi 3-dehydroquinase dehydratase

Catalog No: #AP72910

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Package Size: #AP72910-1 20ug #AP72910-2 100ug #AP72910-3 1mg

## Description

Product Name	Recombinant Salmonella typhi 3-dehydroquinase dehydratase
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-252aaSequence Info:Full Length
Other Names	Type I DHQase
Accession No.	P24670
Uniprot	P24670
GeneID	1248131;
Calculated MW	29.6 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MKTVT <sup>V</sup> KNLIIGEGMPKII <sup>V</sup> SLMGRDINS <sup>V</sup> KAEALAYREATFDILEWRVDHFM <sup>D</sup> IASTQSVLTAARVIR <sup>D</sup> AMPDIP LLFTFRSAKEGGEQTITTQHYLTLNRAAID <sup>S</sup> GLVDMIDLELFTGDADVKATVDYAHAHNVYV <sup>V</sup> M <sup>S</sup> NHDFHQTPS AEEMVLR <sup>L</sup> RKMQALGADIPKIAVMPQSKHDV <sup>L</sup> LLTATLEMQQHYADRPVITMSMAKEGVISRLAGEVFGSAA TFGAVKQASAPGQIAVNDLRSVLMILHNA
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Involved in the third step of the chorismate pathway, which leads to the biosynthesis of aromatic amino acids. Catalyzes the cis-dehydration of 3-dehydroquinase (DHQ) and introduces the first double bond of the aromatic ring to yield 3-dehydroshikimate. The reaction involves the formation of an imine intermediate between the keto group of 3-dehydroquinase and the epsilon-amino group of Lys-170 at the active site.

## References

Molecular cloning and characterization of the *aroD* gene encoding 3-dehydroquinase from *Salmonella typhi*. Servos S., Chatfield S., Hone D., Levine M., Dimitriadis G., Pickard D., Dougan G., Fairweather N., Charles I.G.J. Gen. Microbiol. 137:147-152(1991)Research Topic:Others

Note: This product is for in vitro research use only