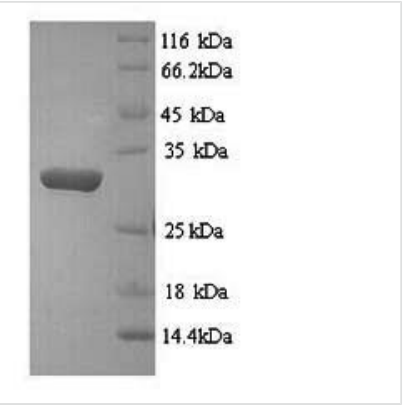
Recombinant Salmonella typhi 3-dehydroquinate dehydratase (aroD)

Product Code	CSB-YP326162SWW
Relevance	Involved in the third step of the chorismate pathway, which leads to the biosynthesis of aromatic amino acids. Catalyzes the cis-dehydration of 3-dehydroquinate (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-dehydroquinate and the epsylon-amino group of Lys-170 at the active site.
Abbreviation	Recombinant Salmonella typhi aroD protein
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.
Uniprot No.	P24670
Alias	Type I DHQase
Product Type	Recombinant Protein
Immunogen Species	Salmonella typhi
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MKTVTVKNLIIGEGMPKIIVSLMGRDINSVKAEALAYREATFDILEWRVDHFMDI ASTQSVLTAARVIRDAMPDIPLLFTFRSAKEGGEQTITTQHYLTLNRAAIDSGLV DMIDLELFTGDADVKATVDYAHAHNVYVVMSNHDFHQTPSAEEMVLRLRKMQ ALGADIPKIAVMPQSKHDVLTLLTATLEMQQHYADRPVITMSMAKEGVISRLAG EVFGSAATFGAVKQASAPGQIAVNDLRSVLMILHNA
Research Area	Others
Source	Yeast
Target Names	aroD
Protein Names	Recommended name: 3-dehydroquinate dehydratase Short name= 3-dehydroquinase EC= 4.2.1.10 Alternative name(s): Type I DHQase
Expression Region	1-252aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	29.6kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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