

## Recombinant E.coli-k12 Dihydrodipicolinate synthase

Catalog No: #AP72395



Package Size: #AP72395-1 20ug #AP72395-2 100ug #AP72395-3 1mg

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## Description

Product Name	Recombinant E.coli-k12 Dihydrodipicolinate synthase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-292aaSequence Info:Full Length
Accession No.	P0A6L2
Uniprot	P0A6L2
GeneID	946952;
Calculated MW	35.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MFTGSIVAIVTPMDEKGNVCRASLKKLIDYHVASGTSIAIVSVGTTGESATLNHDEHADVMMMLDLADGRIPVIA GTGANATAEAIISLTQRFNDSGIVGCLTVTPYYNRPSQEGLYQHFKAIAEHTDLPQILYNVPSRTGCDLLPETVG RLAKVKNIIGIKEATGNLTRVNQIKELVSDDFVLLSGDDASALDFMQLGGHGVISVTANVAARDMAQMCKLAAE GHFAEARVINQRLMPLHNKLFVEPNPIPVKWACKELGLVATDTLRLPMTPTIDSGRETVRAALKHAGLL
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

Catalyzes the condensation of (S)-aspartate-beta-sialdehyde [(S)-ASA] and pyruvate to 4-hydroxy-tetrahydrodipicolinate (HTPA).

## References

NMR studies uncover alternate substrates for dihydrodipicolinate synthase and suggest that dihydrodipicolinate reductase is also a dehydratase.Devenish S.R., Blunt J.W., Gerrard J.A.J. Med. Chem. 53:4808-4812(2010)Research Topic:Others

Note: This product is for in vitro research use only