

Recombinant Escherichia coli Transketolase 1(tktA)

Catalog No: #AP71083

Package Size: #AP71083-1 20ug #AP71083-2 100ug #AP71083-3 1mg

Description

Product Name	Recombinant Escherichia coli Transketolase 1(tktA)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-663aaSequence Info:Full Length
Accession No.	P27302
Calculated MW	88.2 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MSSRKELANAI RALSM DAVQKAKSGHPGAPMGMA DIAEVLWRDFLKHNPQNPSWADRDRFVLSNGHGSM LI YSLHLHTGYDLPMEELKNFRQLH SKTPGHPEVGYTAGVETTTGPLGQGIANAVGMAIAEKTAAQFNRP GHD I VDHYTYAFMGDGCMMEGISHEVCSLAGTLKLGKLI AFYDDNGISIDGHVEGWFTDDTAMRFEAYGWHVIRDI D GHDAASIKRAVEEARAVTDKPSLLMCKTIIGFGSPNKAGTHDSHGAPLGDAEIALTREQLGWKYAPFEIPSEIYA QWDAKEAGQAKESAWNEKFAAYAKAYPQEA AEFTRRMKGEMPSDFDAKAKEFI AKLQANPAKIASRKASQN AIEAFGPLLPEFLGGSADLAPSNLTLWSGSKAINEDAAGNYIHYGVREFGMTAIANGISLHGGFLPYTSTFLMFV EYARN AVRMAALMKQRQVMVYTHDSIGLGEDGPTHQPV EQVASLRVTPNMSTWRPCDQVESAVAWKYGVE RQDGPTALILSRQNLAQQERTEEQ LANIARGGYVLKDCAGQPELIFIATGSEVELAVAAYEKLTAEGVKARVVS MPSTDAFDKQDAAYRESVLPKAVTARVA VEAGIADYWKYVGLNGAIVGMTTFGESAPAELLFE EFGFTVDNV VAKAKELL
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 reversible transfer of a two-carbon ketol group from sedoheptulose-7-phosphate to glyceraldehyde-3-phosphate, producing xylulose-5-phosphate and ribose-5-phosphate. Catalyzes the transfer of a two-carbon ketol group from a ketose donor to an aldose acceptor, via a covalent intermediate with the cofactor thiamine pyrophosphate.

References

Lysine acetylation is a highly abundant and evolutionarily conserved modification in Escherichia coli.Zhang J., Sprung R., Pei J., Tan X., Kim S., Zhu H., Liu C.F., Grishin N.V., Zhao Y.Mol. Cell. Proteomics 8:215-225(2009)Research Topic:Others

Note: This product is for in vitro research use only and is not intended for use in humans or animals.